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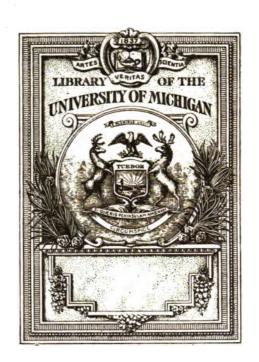
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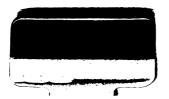
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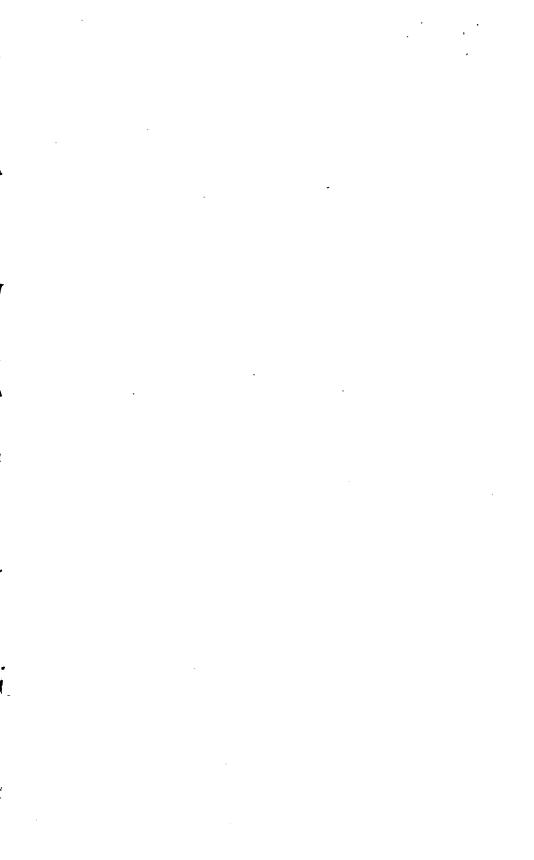
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EIGHTEENTH REPORT

OF THE

STATE BOARD OF HEALTH

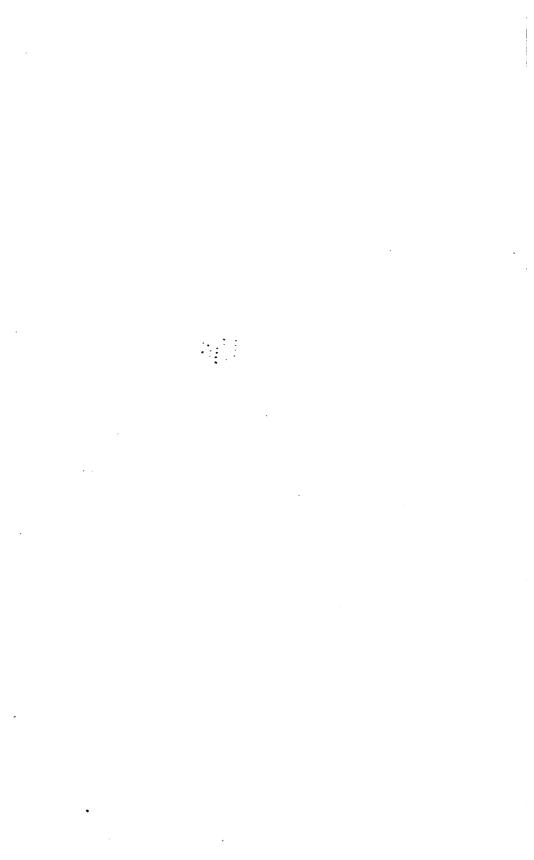
OF THE

STATE OF MAINE

FOR THE

Two Years Ending December 31, 1915.

WATERVILLE SENTINEL PUBLISHING COMPANY 1916



STATE BOARD OF HEALTH OF MAINE.

Office of the Secretary.

Augusta, Maine, June 28, 1916.

To His Excellency, Oakley C. Curtis, Governor, and the Honorable Executive Council:

GENTLEMEN:—I have the honor of submitting to you the Eighteenth Report of the State Board of Health of Maine, it being the biennial report for the years 1914 and 1915.

Very respectfully,

A. G. YOUNG, M. D., Secretary.

MEMBERS OF THE BOARD-1915.

G. M. Woodcock, M. D., President, RICHARD H. STUBBS, M. D., PROF. MARSHALL P. CRAM, W. L. HASKELL, M. D., EUGENE W. Goss, CHARLES A. CREIGHTON, A. G. YOUNG, M. D., Secretary,

Bangor Augusta Brunswick Lewiston Auburn Thomaston Augusta

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SECRETARY'S REPORT.

This report is for the biennial period 1914-15. At the close of this period the names and addresses of the members of the board were as follows:

G. M. Woodcock, M. D., Bangor.

R. H. Stubbs, M. D., Augusta.

Professor Marshall P. Cram, Brunswick.

W. L. Haskell, M. D., Lewiston.

Eugene W. Goss, Auburn.

Charles A. Creighton, Thomaston.

A. G. Young, M. D., Augusta.

At the end of the period for which this report is made there were the following standing committees:

On Finance: G. M. Woodcock, C. A. Creighton, and Richard H. Stubbs.

On Circulars and Other Publications: R. H. Stubbs, G. M. Woodcock, and A. G. Young.

On Sewerage and Drainage and the Disposal of Excreta: Eugene W. Goss, Marshall P. Cram, and Richard H. Stubbs.

On Ventilation: W. L. Haskell, Marshall P. Cram, and Eugene W. Goss.

On Summer Resorts: A. G. Young, G. M. Woodcock, and C. A. Creighton.

On Water and Water Supplies: Marshall P. Cram, W. L. Haskell, A. G. Young, and Eugene W. Goss.

On Schoolhouses and School Hygiene: A. G. Young, Marshall P. Cram, and Eugene W. Goss.

On Infectious Diseases and Methods for Their Control: W. L. Haskell, G. M. Woodcock, and A. G. Young.

On Legislation: A. G. Young, W. L. Haskell, and Richard H. Stubbs.

On Disinfection and Disinfectants: Marshall P. Cram, A. G. Young, and W. L. Haskell.

On the Production and the Use of Vaccine Lymph, Antitoxin and other Inoculation Material: Marshall P. Cram.

On Operation of Laboratory: A. G. Young, Marshall P. Cram, and G. M. Woodcock.

On Supply of Antitoxin to Local Boards of Health: A. G. Young, G. M. Woodcock, and W. L. Haskell.

The following extracts are made from the various meetings of the board:

At the annual meeting of the state board of health which was held Monday, March 30, 1914, Dr. C. D. Smith was reelected president for the ensuing year.

The Secretary made a verbal report to the board on the outbreaks of infectious diseases which had occurred since the last meeting. As regards smallpox he said that at the last reports there were, in Biddeford, six cases; in Buxton, four cases; in Dayton, three; in Hollis, one; Portland, four; Saco, a few; Westbrook, seven; Yarmouthville, eight; and Seven Islands, on the head waters of the St. John, one.

The Secretary reported to the board that the rules and regulations relating to common drinking cups and common towels, which were adopted by the board at its meeting on February 26, have been approved by the Governor and Council. The Secretary was requested to give as wide a notice as practicable to persons who are especially interested in the requirements of those rules and regulations.

The Secretary, at his request, was instructed to prepare a paper for the purpose of instructing local boards of health in the management of the various infectious diseases, and to submit it at the next meeting of the board for approval.

A discussion of the proposition for an effort to change the law so as to provide for the furnishing of the diphtheria antitoxin at the expense of the state to all persons who need it, irrespective of their financial condition, was tabled indefinitely. The opinion of the board was, that it is better to let the existing law relating to the supply of diphtheria antitoxin remain unchanged.

The Secretary was authorized to attend, as the representative of the board, the two conferences which will be held in Washington in June, namely: the conference between the SurgeonGeneral of the Public Health Service and representatives of the state boards of health, and the conference of state and provincial boards of health.

Professor Evans was authorized by the board to attend the conference which will be held April 7, between the American Chemical Society, the Laboratory Section of the American Public Health Association, and the Sanitary Section of the American Chemical Society on standard methods of water and sewage examination.

The director of the laboratory was requested to make investigations for the purpose of testing the comparative efficiencies of various disinfectants, particularly a few of those which, according to the findings of the workers in the Hygienic Laboratory at Washington, have the highest carbolic acid coefficients; this work to be done by him when he finds it practicable to do it.

At the second quarterly meeting of the board the secretary, who had represented the board at the conference of the Surgeon-General with representatives of state and territorial boards of health which was held in Washington, June 18, presented to the board the following resolution which had been adopted at that conference:

"That it is the sense of the delegates assembled at this conference of the Surgeon-General with the representatives of the state and territorial health authorities that the notification and control of communicable diseases would be materially facilitated if the Surgeon-General would designate one officer of the state or territorial board of health in each state or territory as a collaborating epidemiologist."

The Secretary reported to the board his action in connection with the notification which he had received from the Director of the Census in Washington, that a person from outside of the office force had been appointed to make the transcripts of the records of deaths to be sent to Washington from the office of the state registrar. He also reported the action which had been taken at the conference of state and provincial boards of health in relation to this matter.

In view of the fact that many diseases which in other states are reportable to the local boards of health, are not upon the

list of those which are reportable in the State of Maine, the secretary presented to the board a draft for rules and regulations covering this matter which he had prepared for the consideration of the board. After due discussion and with some slight amendments, they were adopted in the following form, the secretary being instructed to submit them to the Governor and Council for approval:

"Under authority conferred by Section 8, Chapter 18 of the Revised Statutes as amended by Section 2 of Chapter 48 of the Laws of 1909, and as further amended by Chapter 149 of the Laws of 1913, the following rules and regulations are hereby made by the state board of health, to be in effect on and after August 1, 1914.

"Section I. For the purpose of guarding against the introduction of infectious and contagious diseases into the state, and for the control and suppression thereof if within the state, the state board of health includes the following diseases within the list of those which shall be reported, namely: Diphtheria and membranous croup, Scarlet Fever, Typhoid Fever, Typhus Fever, Smallpox, Measles, Whooping Cough, Chickenpox, Cerebrospinal Meningitis, Poliomyelitis, Cholera, Pellagra, Plague, Glanders, Rabies or hydrophobia, Leprosy, Ophthalmia Neonatorum and Purulent Inflammation of the Eyes, and Trachoma.

"Section 2. Whenever any householder knows or has reason to believe that any person within his family or household has any of the diseases mentioned in Section 1, he shall, within twenty-four hours, give notice thereof to the secretary of the local board of health of the town in which he resides, and such notice shall be given either at the office of the secretary, or by a communication addressed to him and duly mailed to him within the time specified above.

"Section 3. Whenever any physician knows or has reason to believe that any person whom he is called upon to visit is infected with any of the diseases mentioned in Section 1, such physician shall, within twenty-four hours give notice thereof to the secretary of the local board of health of the town in which such person lives.

"Section 4. The secretary or the executive officer of each local board of health shall report promptly to the state board of health, upon blanks furnished by the state board of health for that purpose, and at such times and in such manner as is provided by those blanks, all cases and outbreaks of the infectious and contagious diseases which are enumerated in Section I of these rules and regulations."

The Secretary read a telegram which he had received from Surgeon-General Blue of the Public Health Service at Washington on the evening of June 29, which read as follows:

"Dr. A. G. Young, Sec'y. State Board of Health, Augusta, Maine. Two human cases suspicious Bubonic Plague reported from New Orleans by Louisiana Health Authorities, immediate steps being taken by this service to make bacteriological confirmation in view possibility of its spread it is recommended that you begin a rodent survey with bacteriological examination captured rats and exterminative measures at all ports your state in order to discover plague if it exists and to take proper measures for its eradication prior to appearance of human cases. If the New Orleans cases are confirmed service will take measures necessary to safeguard other places.

(Signed) BLUE. 5 P. M."

The secretary also presented a telegram which had just been received by him from the Surgeon-General's office, and which read as follows: "Surgeon-General Blue arrived New Orleans this morning as soon as diagnosis confirmed will inform you.

(Signed) GLENNAN,

Acting."

The local board of health of Portland which was present at this meeting by invitation of the state board, entered with the state board into a discussion of the question of the danger from plague in Portland and the other ports in the state of Maine. The local board of health, at the request of the state board, will secure information as early as possible in regard to the number of ships which have entered the port of Portland, and which have cleared from New Orleans, Mobile, or other southern ports, within the last eighteen months, and the secretary was instructed to secure as accurate information as

is possible of the number of ships which have entered other ports upon the coast of Maine from southern ports within the last year and a half or two years.

The consideration of what further steps should be taken by the board was left for future action and until further informamation has been received from the federal public health service. No further business coming before the meeting, it was voted to adjourn. Adjourned.

The third quarterly meeting of the board for 1914 was held October 6. In the absence of a president, due to the resignation of Dr. C. D. Smith, Dr. G. M. Woodcock was elected president to fill the vacancy in the organization of the board, his term of office to extend to March 29, 1915, or to such other date as the annual meeting of the board for that year may be held. His presidency to be invalid in case the resignation of Dr. Smith is not accepted.

The secretary made a verbal report on the epidemic work which he had done since the last meeting. He reported to the effect that there had been no outbreaks of smallpox within that date, but that he had been called to several places on account of the appearance or the prevalence of some other diseases, namely: August 7 he was in Belfast in conference with the local board of health of that city in relation to an outbreak of typhoid fever there; September 2, 3, 5, 15, and 19 he spent in work in the investigation of an outbreak of typhoid fever at York Harbor, and in conference with the citizens and the local authorities in regard to eradicative measures and for the guarding of the town against future outbreaks of the same disease.

September 11, he and Dr. Smith were in conference with the local board of health of Portland in regard to a serious outbreak of typhoid fever in that city.

September 16, at the request of the secretary of the local board of health of Wiscasset, he visited two families in that town, in which cases of infantile paralysis were supposed to be present. The next day he went to Etna for the purpose of advising the local board of health of that town as to what course should be taken in a school and neighborhood where whooping cough had made its appearance.

On the 22nd of the same month he went to Ogunquit at the request of the local board of health of that place to advise them in regard to measures for the mitigation or abatement of some nuisances which have troubled the local board.

September 29 and the afternoon of September 30 were spent in an investigation of the conditions which are at fault in the village of Smyrna Mills and which have given rise to the continued prevalence of typhoid fever in and around that village.

The secretary called the attention of the board to the following resolution which was passed at the conference of the State and Provincial Boards of Health at their meeting of this year.

Resolved: That each of the provinces and states holding membership in the conference be requested to make a sanitary survey of at least one county, or district before the next annual meeting of the conference.

It was the sentiment of the board that it would be impossible for the board to make such sanitary survey, and that in the opinion of the board the money which it would cost to make such sanitary survey could be spent with much greater benefit to the state in extending as far as possible the various kinds of educative work in which the board is now engaged.

The secretary presented to the board a letter which had been received from Dr. Dickison, secretary of the local board of health of Houlton, relating to the by-laws of that board covering the subject of the inspection of meat and the application of the tuberculin test to cows, the milk from which is to be sold in Houlton, and the decision of the law court, sustaining the verdict of the Supreme Court and the Municipal Court.

The secretary reported verbally to the board in regard to the educative work which has been going on under his direction, the work of Mrs. Ellis in giving illustrated talks of the Health of Rural Homes before the granges, the work which the Rev. Mr. MacDonald has been doing along the coast through his talks on Tuberculosis illustrated with lantern slides; and the work which was done at the State Fairs at Waterville and Lewiston.

After receiving a report from the secretary on the workings of the rules and regulations of the board relating to common drinking cups and common towels, the secretary was instructed whenever he learned of an instance of noncompliance with the requirements of the rules and regulations to send a copy of the rules and regulations to the person, firm or institution guilty of the offence, the rules and regulations to be accompanied by a letter of warning.

At the fourth quarterly meeting of the board for the year 1914, the secretary reported to the board what he had done or attempted to do in connection with the outbreak of typhoid fever which occurred in Portland. Cooperating with the local board of health. Dr. Harold V. Bickmore as agent of the board. had been sent to Portland, for the purpose of getting the histories of each individual case and making a record of the cases upon the standard blanks which are used by the board in investigating outbreaks of typhoid fever. After the occurrence of a very few cases of typhoid fever in the city in each of the first seven months of the year, there was a sharp outbreak in the latter part of August which continued through the month of September with a rapid decline in the number of cases in October. The character of the outbreak, particularly the abruptness with which it occurred, was suggestive, through that fact alone, of a milk-borne outbreak.

The secretary reported the results of the investigations which have been made for the board by Dr. Bickmore into the source of the infection of the Portland typhoid epidemic. The results coincide with the conclusions which have been reached by the local board of health of Portland, that the infection was milk-borne and that the majority of cases of typhoid fever appeared to be referable to the milk of one particular dealer while quite a large number of the patients had been using the milk from another dealer.

An inquiry directed to the health officers of other towns and cities which also received as its public supply the water of the Portland water district, showed that there had been no annual prevalence of typhoid fever in those other places.

In the first place the inspection of dairies and the control of milk supplies is in the hands of the state department of agriculture. The state board of health is not only unable to do anything with authority in this particular line, but it is lacking a field-man or inspector who may promptly be sent to investigate the sources of danger, in this or other lines of work.

In the second place, until Section 5 of Chapter 140 of the laws of 1913 went into effect, the commissioner of agriculture and the state board of health were engaged in a cooperative work on milk in that the samples of milk taken by the inspectors of the department of agriculture were examined chemically and bacteriologically in the state laboratory under the supervision of the state board of health. From the central office in Augusta the inspector went out, and to the laboratory, the same central point, the samples of milk which were collected came back for examination. The results of the examinations were quickly available to both departments and there was a chance for prompt personal conference between the workers of the two departments. Now, however, the commissioner of agriculture is forced to have all his "commodities" sent to Orono for examination.

The board gave some time to the consideration of this matter and the members were of the opinion that it is very necessary to have some new legislation which will enable the state board of health, and perhaps the local boards of health to take more prompt and efficient action to prevent danger of milk-borne infection and to do work which may quickly check outbreaks of typhoid fever when they do occur. The further consideration of this matter and the drawing up of a legislative bill was left with the committee of the board on legislation.

Some time was spent in the discussion of the supervision of our summer resorts and the inspection of hotels. The provisional draft of a bill relating to the inspection of hotels was presented by the secretary. It was referred to the committee on legislation.

The absolute necessity of having a building erected and properly equipped for the work of the state laboratory of hygiene was recognized by the board and the matter of the preparation and introduction to the legislature of the resolve providing for a laboratory building, this and an increase in the appropriation for carrying on the laboratory work was referred to the committee on legislation.

A letter from the office of the Surgeon-General of the Public Health Service relating to the model law, a law providing for the reporting of infectious and some other diseases was con-

sidered by the board. Whether this model law shall be presented to the legislature was also referred to the committee on legislation.

The letter which had been received from the committee for the prevention of blindness of the state of New York, called the attention of the board to the recent amendment of the sanitary code of the New York city department of health relating to wood alcohol. Whether this shall be presented to the legislature as a substitute for our present law covering the same subject was referred to the committee on legislation.

The following resolutions relating to the retirement of Dr. Chas. D. Smith from the board were presented by Prof. Cram, chairman of the committee appointed at the last meeting, were unanimously adopted and the secretary was instructed to enter the resolution upon the records of the board and to send a copy to Dr. Smith.

"Resolved, that it was with sincere regret that the state board of health learned that, on account of the burden of his many duties, Dr. Charles D. Smith was obliged to retire as a member of the board.

"The years which he spent in local public health service and in practical laboratory work before his appointment as a member of the board fitted him exceptionally well for the position. During the twenty-four years for which Dr. Smith has been a member of the board and in the twenty-one years for which he has served as president, he has had the respect and affection of his associates for the fairness and impartiality with which he has presided over our meetings, for the sagacity and wisdom with which he has shaped our policy, and for the zeal and diligence with which he has worked for the interests with which the board is entrusted.

"We believe that his resignation is a distinct loss to the public health interests of the state, which he has served so faithfully and well. We regret personally that he is no longer to serve with us as a member of the board, and sincerely hope that what is a loss to the public and to his associates may, by releasing him from extra labor, prove a gain to him."

At the first quarterly meeting of the board for 1915, held April 15, the secretary was authorized to spend in the educative work, by means of exhibits, lectures, and illustrated talks and demonstrations, a sum not to exceed \$800 from the appropriation of the board for the current year.

Some time was spent in the discussion of the laboratory work for the year 1915. It was voted that the director of the laboratory be instructed to do no more work in the examination of samples of milk for the state commissioner of agriculture, this for the reason that the time and facilities are lacking for doing that work and that it would interfere with some work in other lines which it is desirable shall be done.

The question of the preparation and free distribution of antityphoid vaccine, and some other questions which were discussed were laid on the table until the next meeting of the board.

At the second quarterly meeting for 1915, held July 13, the first matter taken up was the consideration of what the board should do to prevent the importation of rabies into the State of Maine. The secretary presented a draft which he had prepared of "Rules and Regulations of the State Board of Health made for the purpose of excluding Rabies or Hydrophobia from this State." After considerable discussion the following was passed as an amendment of the draft which had been presented by the secretary:

RULES AND REGULATIONS

of the State Board of Health made for the purpose of excluding rabies or hydrophobia from the State of Maine.

"Under the authority conferred by Section 8 of Chapter 18 of the Revised Statutes as amended, the State board of health hereby makes the following rules and regulations which shall remain in effect until altered, modified, or revoked by vote of said board.

"Section 1. Any person bringing into this state a dog which, within six months has been in the state of Massachusetts or other state where rabies is prevalent, shall within two days of the arrival of the dog in this state, notify the secretary of the state board of health of the place from which the dog has come, and the dog's destination in this state.

"Section 2. Any person owning, having an intereest in, or having the care, charge, control, or possession of any dog which has been brought or has come from the state of Massachusetts within six months, or from other states where rabies is prevalent, shall for six months after its arrival in this state keep the animal muzzled so that it shall be impossible for it to bite any person or animal, and, muzzled or not muzzled, shall not let such dog run at large in or upon any public street, alley, or other public place, or in or upon any unenclosed lot or premises."

Some time was spent in the consideration of what further action it might be necessary for the board to take if, possible, rabies should develop in the state.

Dr. A. G. Young, Secretary, was authorized by vote of the board to attend the meeting of the American Public Health Association as the representative of the board. The meeting will be held at Rochester, N. Y., in the month of September.

The secretary was also authorized to visit such other health departments outside of the State of Maine as he may think necessary and desirable for the purpose of inspecting the methods which are in use in those other health departments in carrying on the work of their respective offices.

It was voted that the secretary be and is hereby authorized to employ from time to time such additional help as he may find may be needed to enable the office force to do their work promptly and efficiently; and to employ from time to time additional help to enable him effectively to carry on the educative work of the board covering the various lines of lectures, illustrated talks, exhibits, and demonstrations.

Some time was spent in the consideration of rules and regulations relating to the transportation of dead bodies. Finally, by vote of the board, the following were made and adopted and the secretary was instructed to present them to the Governor and Council for approval:

RULES AND REGULATIONS

of the State Board of Health of Maine relating to the transportation of the dead.

"Under the authority conferred by Section 8 of Chapter 18 of the Revised Statutes as amended, the state board of health hereby makes the following rules and regulations which shall remain in effect until altered, modified, or revoked by vote of said board.

"Rule 1. A copy of the original death certificate, signed by the attending physician, a permit from the town or city clerk or local registrar, and a transit label signed by the shipping funeral director and the initial baggage agent, printed on strong paper, supplied by the state board of health, shall be required for the transportation by common carrier of the bodies of persons who have died in this state. The death certificate shall contain such information, if obtainable, as is required in the form of death certificate which is furnished by the department of vital statistics.

"The permit of the town or city clerk shall authorize the transportation of the body of the person described in the physician's certificate. The shipping funeral director shall state on the shipping label how the body is prepared and the local baggage agent shall state thereon the route and the name and address of the escort.

"The physician's permit and that of the town or city clerk shall be given to the escort to be delivered with the body at destination. The shipping label shall be securely attached to the outside case. If the body is sent by express, the physician's certificate and the permit shall be attached to the express way-bill, and shall be delivered with the body at the destination, and the shipping label shall be attached to the outside case.

"If burial is made in this state the sexton, undertaker, or other person who has charge of the burial shall, after he has presented the conjoined certificate and permit to the town or city clerk for a burial permit, forward them to the secretary of the state board of health within ten days after he has received them.

"Rule 2. The transportation of bodies dead of smallpox, plague, Asiatic cholera, yellow fever, typhus fever, diphtheria (membranous croup or diphtheritic sore throat), scarlet fever (scarlet rash or scarlatina), erysipelas, and anthrax shall be permitted only under the following conditions: the body shall be thoroughly embalmed with an approved disinfectant fluid, all orifices shall be closed with absorbent cotton, the body shall be washed with the disinfectant fluid, enveloped in a sheet saturated with the same, and placed at once in the coffin or casket, which shall be immediately closed, and the coffin or casket, or the outside case containing the same, shall be metal or metal lined, and hermetically and permanently sealed.

- "Rule 3. The transportation of bodies dead of any diseases other than those mentioned in Rule two, shall be permitted under the following conditions.
- "a. When the destination can be reached within twenty-four hours after death, the coffin or casket shall be enclosed in a strong outside box made of good, sound lumber, not less than seven-eighths of an inch thick, all joints must be tongued and grooved, top and bottom, put on with cleats or cross pieces, all put securely together, and be tightly closed with white lead, asphalt varnish or paraffin paint, and a rubber gasket placed on the upper edge between the lid and box; provided, however, that caskets containing embalmed bodies may be shipped to points in this state in tight ordinary casket boxes; and provided further that bodies addressed to the anatomical board of this state may be received for shipment when prepared in such manner as the state board of health may direct.
- "b. When the destination cannot be reached within twentyfour hours after death, the body shall be thoroughly embalmed, and the coffin or casket placed in a strong well-made outside shipping case.
- "Rule 4. No disinterred body, dead from any disease or cause, shall be transported by common carrier unless approved by the local board of health having jurisdiction at the place of disinterment, and a transit permit and transit label shall be required as provided in Rule 1. The disinterment and transportation of bodies dead of diseases mentioned in Rule 2 shall not be allowed except upon special permission of the health authorities at both the place of disinterment and the point of destination. All disinterred remains for transportation shall be encased in metal caskets or metal lined boxes, and hermetically sealed: Provided that bodies in a receiving vault when prepared by licensed embalmers, shall not be regarded as disinterred bodies until after the expiration of thirty days.
- "Rule 5. The outside case may be omitted in all instances when the body is transported in a hearse or a funeral director's wagon.
- "Rule 6. Every outside case shall have at least four handles, and when over five feet six inches in length shall have six handles.

"Rule 7. An approved disinfectant fluid shall contain not less than five per cent. of formaldehyde gas. The term 'embalming,' as employed in these rules, shall require the injection by a licensed embalmer, of not less than ten per cent. of the body weight for bodies of persons dead of diseases under Rule 2, injected arterially in addition to cavity injections; and not less than six per cent. of the body weight injected arterially in all other cases in addition to cavity injection, and ten hours shall elapse between the time of embalming and the shipment of the body.

"Rule 8. The attached form of death certificate, town or city clerk permit, and label as described herein, with these rules printed thereon, shall be used in this state for the shipment of bodies as herein provided."

At the third quarterly meeting held September 29, 1915, several letters were read, two to the Bureau of the Census, one in answer to a letter from Dr. Fulton of Baltimore, Maryland, and one from one of our own towns, all of which were explanatory of the reason why the secretary, for the want of sufficient help in the office, had been unable to do certain kinds of work which should have been done or should have been done more promptly.

The question of the inspection another season of the various camps which have been established in this state for the recreation and training of boys and girls was taken up and briefly discussed. As it would be a serious matter if an outbreak of typhoid fever or any other infectious disease should appear in any of these camps as a result of faulty or inadequate sanitary arrangements, it was the opinion of the board that it is very desirable that work of this kind be done.

It was voted that the secretary be authorized to employ a competent person to make a field investigation of the public water supplies of the state. The secretary is further instructed to submit this vote to the Governor and Council and to request their approval of the expenditure of what sum may be necessary for this purpose from the regular appropriation for the work of the state board of health.

The secretary reported that, on account of certain handicaps he had been prevented from carrying on so wide a campaign of education at the state and county fairs as he had proposed at the last meeting of the board, and as he had been authorized to do. He had, in fact, done work of this kind only at the State Fair in Lewiston where, by means of talks illustrated with lantern slides and by means of demonstrations of first aid and life saving, work had been done which had been appreciated very highly. He read notes relative to unsolicited expressions of appreciation of the work which had been done there.

SUMMARY OF OFFICIAL WORK.

The following is a brief statement of the character of the work done in the office of the state board of health:

OFFICE WORK.

The work done in the office of the state board of health and the department of vital statistics is very varied in character and at all times there is as much work as it is possible to have done even with the rapid and efficient helpers, and sometimes, for the want of additional help which we cannot have, some work which should be done remains undone or is not done as promptly as it should be. The great number of problems in the solution of which the office must aid is indicated in part by a glance over pages 30 to 133 of the Fifteenth Report of the board. Much of this correspondence is technical in a sufficient degree to make it desirable that the answers be dictated by the secretary himself; therefore, it sometimes happens that during his absence the final answers to some parts of the correspondence must be delayed until after his return. Since the earlier years of the work of the board times have changed very much. With the state well covered with its network of telephonic wires, there is now need, in epidemic times particularly, for the executive officer to have his ear not far from the telephone in his office in the State House.

EPIDEMIC WORK.

Much of the time of the executive officer of the state board of health has necessarily been devoted to correspondence relating to the management of outbreaks of the infectious diseases, and in some years and months to travel much of the time for the purpose of seeing cases, making diagnoses, and giving personal advice in epidemic emergencies. Under any arrangement much of this is unavoidable, but to insure as great a degree of

uniformity as is possible among all of our local boards of health in the work for the control of these diseases, to make their methods as unhesitating and effective as may be, and incidentally to save a bit of time in answering inquiries about what should be done under this or that eventuality, the state board of health has prepared and put into effect a set of rules and regulations relating to the infectious diseases. This was done only after careful consideration and an examination of the codes which were in effect in those state and municipal departments which are noted for up-to-date and efficient work.

Under the guidance of these rules and regulations and the notes which are included in the same pamphlet with them, it is not only hoped that the work of the local health officers may be more certain and uniform, but it is planned that the reports of the notifiable diseases to local boards of health and to the state board shall be just as prompt and complete as possible and that the indexing and keeping track of outbreaks shall, in the central office, be as complete as it can be.

But, to make the utmost in keeping the infectious diseases under control, more money must be spent for help than has thus far been permitted, and there should be an extension of laboratory work outside of the field which it has yet been practicable to cover, and a more liberal provision of the biological products which now-a-days are so valued a feature in diagnostic, prophylactic, and therapeutic work.

FIELD-WORK.

One of the greatest needs of the state department of health is a field-worker—a man who could, much of the time, be on the road in answer to calls from local boards of health and others for consultations and advice about local conditions which are troublesome. The various kinds of work in the office of the state board of health have so increased that the whole time of the secretary is needed there. Nevertheless, some months and some years the flights from the office on various kinds of official work have been many—calls for the differential diagnosis of cases, or suspected cases of the infectious diseases; the inspection of local conditions known or thought to constitute nuisances; to advise school boards about the reconstruction of

school buildings or the improvement of the conditions in or around them; to advise the owners or managers of boys' camps about safe-guarding their charges, etc.; but in the two years, and particularly in the latter of the two years and covered by this report the state has been very fortunate in having an unusually small prevalence of the infectious diseases. As indicating the varying character of this outside work, some, a minor part of the visits of the secretary, are noted here:

1914.

February 3. A visit was made to Litchfield to see a suspected case of smallpox which was found to be chickenpox although the patient was an adult.

February 6. At the request of the superintendent of schools at Lisbon Falls, the secretary visited that village for the purpose of examining five school buildings and advising the school board as to the desirability of repairing or reconstructing the old building or of erecting a new building instead. The lighting of these buildings generally was found to be very unsatisfactory and dangerous for the continued work which children are required to do during school hours. In some of the rooms the glass surface of the windows was found to be only slightly better than one-tenth of that of the floor surface instead of at least one-fifth as it should be, or still better onefourth. The rooms were ill-shaped; the heating and ventilation were very faulty; the toilet services were altogether too crude in construction so that gases of decomposition from the contents of the vaults were imperiling the health of the pupils. Subsequently, a great improvement in the conditions under which pupils might carry on their school activities was effected by the construction of a new and up-to-date school building.

February 27. Buckfield village was visited for the purpose of examining the school building in the village and advising upon the question as to the erection of a new building or of the reconstruction and repairing of the old one. The shape of the rooms was found to be unsuitable for school purposes; the lighting was exceedingly bad so as to be altogether too trying to the eyes of the pupils. The system of heating was found to be altogether inadequate and otherwise faulty. In none of the rooms save in the High School room was there any provision

whatever for the removal of the foul air and the arrangements there were practically worthless. The basement was altogether too low and damp, sometimes wet or even flooded. The fire risks were excessive.

The advice given was that it is advisable to erect a new building, "My reasons for this opinion are two:

- "I. The changes which would be called for in the attempt to make this building decently suitable for school purposes would be extensive and costly.
- "2. After the re-constructive work had been done it would be found impossible to convert this old schoolhouse into such a building as the village and town should have."
- March 6. At Portland, Biddeford and Saco for the purpose of making an inquiry and investigation in regard to the presence of cases of smallpox.
- March 11. Yarmouthville was visited on account of the presence of cases of smallpox. Visits were made with the attending physician and member of the local board of health from house to house. Seven cases were found. The physician's diagnosis of smallpox was confirmed.

March 12. A call to Portland to see a suspected case which was found to be smallpox.

March 20. Bar Mills and Buxton were visited for the reason that there had appeared cases which were suspected of being smallpox. Persons were found in three houses who plainly had that disease. In a conference with the local board of health, advice was given as to the management of the outbreak.

March 21. A house in the town of Winthrop was visited for the purpose of examining a suspected case which, though in an adult, was found to be plainly chickenpox with a profuse eruption.

March 25. Upon a call from the local board of health of Westbrook, that city was visited on this date and, after an investigation of the cases in several homes, smallpox was found to be present.

March 31. In answer to a call from the local board of health of the town of Naples, a family was visited in the southern part of that town in which chickenpox was found, the eruption being in a form in which the attending physician was justified in being cautious in his diagnosis.

- April 3. There was a difference of opinion in the town of Dexter as to the nature of certain cases of infectious diseases; one case of chickenpox was found in one family, and in other families scarlet fever, which in some of the homes had assumed a very malignant form.
- April 18. A call to Portland to see a case of a suspicious and questionable eruption. The diagnosis of drug eruption was made. The patient had been taking bromides.
- April 24. Under this date a call to Leeds Center. It was found that both scarlet fever and chickenpox were present.
- May 2. In Old Town an inspection was made and a conference held over certain insanitary conditions, and in Orono scarlet fever and measles were found.
- May 6. A conference was held in the city of Rockland with the Rev. Alexander P. MacDonald who has charge of the work which the Coast Missionary Society is doing. Arrangements were made for cooperation between the state board of health and this Society in improving the health conditions of the people on the islands and fishing villages which are under the ministrations of Mr. MacDonald.
- May 11. A visit was made to Kennebunkport to advise in regard to the nature of a suspected case which was found to be chickenpox, and returning, Westbrook was visited on account of the presence of cases of smallpox.
- June 6. A local nuisance which had given the local board of health of Waterville much trouble was inspected by the secretary and a conference was held with the board as to desirable methods of working for the removal of the faulty condition.

June 15-24. Within the time covered by these dates, the secretary as a delegate of the board was in attendance at a conference which was held in Washington between the Surgeon-General of the Public Health Service and representatives of the state boards of health. Within the same period and at the same place he attended the conference of the State and Provincial boards of health. These conferences are held annually and the matters discussed are of so great importance that any state department of health which cannot be represented at any one of these meetings feels that its failure to be represented is a distinct loss to its service and to its state.

June 27. The secretary went to Bath for the purpose of inspecting six of the school buildings in that city. In these generally the rooms were too wide in proportion to their length. In none of them was the lighting found to be what is now considered essential for school work. In none of them was there found a space where blackboards could be so placed that the examination or the reading of the work placed upon them would not strain and have a tendency to injure the eyes of the children. In none of the rooms was there an efficient system of ventilation or any ventilation worthy of the name. The following are a few of the paragraphs extracted from the report which was made to the school board:

"Your city, with so much to make it attractive and so much to commend it to its own people and to others, does not do itself justice nor do right by its children by imposing upon them such noisome and noxious conditions as are found in the outhouses which are on some of the school lots outdoors, and on others actually under the same roof with the school rooms.

"In these days the educative influence, if we may so call it, which comes from suitably selected and well ordered play-grounds, is hardly of less value to the children than the instruction which they receive within the school room. In Bath I found some of the worst school grounds that I have ever seen.

"In some of your school buildings which are of more than one story in height, it seems to me that the danger which hangs over the children from a fire or from a fire panic is serious and should not be allowed to continue. Even if fire escapes are on these buildings, they would, in their present form, be a very unsafe substitute for broader and better stairways and a better provision of halls and doorways as exits."

It may be added that Bath has redeemed herself by the construction of a first-class up-to-date school building to take the place of these old structures.

August 7. In answer to a call, an inspection was made of the water supply system of Northport and on the way through Belfast it was incidentally learned that cases of typhoid fever had appeared in the city. An investigation was therefore made of the water supply system of Belfast and of part of its watershed. The source of the infection, though apparently not referable to the water supply, could not be fixed with any degree of certainty.

September 2 & 3. The secretary was called to York Harbor and spent three or four days then and subsequently in making an investigation of an outbreak of typhoid fever in that village which had resulted in the development of twenty-one cases in all. After a bit of careful work there was found to be no difficulty in tracing the source of the infection to one particular milk supply. At a special town meeting which was held later at which the secretary of the state board was present and made his report which had already been presented to the local board of health, the town took prompt action in guarding against similar outbreaks of this or other infectious diseases in the future.

September 11. This day the secretary of the state board was called to confer with the local board of health of Portland in regard to an outbreak of typhoid fever which had become extensive and serious. Considerable time at various dates through September and Ootober was spent by the secretary of the board in an investigation as to the source of the infection, and a much greater time was spent for the board by Dr. Bickmore of Augusta, who subsequently settled and practiced in Portland, in investigating and tracing out from house to house the history of the various cases. The work which was done by the state board easily confirmed the opinion of the local board of health that the chief source of infection had been the milk supply by two dairymen and that the probable specific source of infection of many of the cases came from a farm in New Gloucester where there had been a case of typhoid fever the preceding year, and where there was, at the time of the outbreak in Portland, another case of the same disease in the same house.

September 16. A call to Wiscasset by the secretary of the local board of health to visit two families outside of the village in which there had recently been what appeared to have been cases of infantile paralysis in a mild form and in which plain and marked symptoms of paralysis had not occurred.

September 17. At the request of the local board of health a conference was held in Etna with the local health authorities on account of the prevalence of whooping-cough in some of the schools.

September 22. Most of this day was spent at Ogunquit in the town of Wells in the inspection of certain conditions which had been making trouble for the local board of health.

September 28. This and part of the following day was spent in an investigation of the sanitary conditions in Smyrna Mills and Oakfield. There had again been a recurrence of cases of typhoid fever in Smyrna Mills.

October 16. The dairy in New Gloucester which had apparently been the chief source of infection of the cases of typhoid fever in Portland was personally inspected by the secretary of the state board. The water supply of the household, coming from a spring at a considerable distance, was altogether devoid of suspicion. The methods of caring for the milk and taking care of the dairy apparatus were faulty, particularly in view of the fact that the flies had ready access to the privy vault and after a short flight just as ready access to the room in which the milk and the dairy utensils were cared for

1915.

February 26. A visit was made to the town of Madison for the purpose of conferring with and advising the local board of health.

April 19. To Skowhegan to confer with the building committee in regard to the plans of a new school building in the village.

May 27. To Pittsfield to see a case of suspicious infectious disease. It was found to be chickenpox instead of smallpox.

June 20. In Kennebunk the secretary visited cases in which there was a suspicion of smallpox. It was found that a man from New Hampshire with his daughter had visited a family; that his daughter just before the visit had an attack of what had been called chickenpox. In the case seen there was no difficulty in making a positive diagnosis of smallpox.

June 29. For the purpose of investigating some cases of typhoid fever which occurred in the village of Kittery, a visit was made to that town and a conference was held with the local board of health and physicians.

August 18 & 19. Under this first date the secretary and the president of the state board of health were in attendance at a meeting of the Hancock Medical Society, and the next day the

secretary, in answer to a request which he had previously received from the secretary of the local board of health of Gouldsboro, visited that town for the purpose of advising the local board in regard to the best methods of coping with certain nuisances which had been causing trouble.

August 21. In the village of Hiram, a troublesome outbreak of impetigo contagiosa had occurred and on account of this outbreak a visit was made by the secretary of the state board. The diagnosis of the attending physician and the secretary of the local board of health was confirmed.

August 22. One of the boys' camps in the town of Belgrade was visited for the purpose of advising the owner of the camp at his request with regard to the sewage and the water supply on the premises.

August 27. Oakland was visited for the purpose of conferring with Dr. Totman about the presence of cases of poliomyelitis.

September 6-10. The secretary, as the representative of the board, was in Rochester, New York, attending the meeting of the American Public Health Association. This Association includes within its membership national, state and municipal health officers not only of the United States, but of our insular possessions, Canada, Cuba and Mexico. The program covers matters which are of great practical value to health workers. This year's meeting was notable for the large attendance, a total registration of about two thousand, and for the large number of eminent sanitary experts and other earnest workers for the betterment of our health and social conditions. Among the many prominent persons were: Surgeon-General Wm. C. Gorgas, probably the foremost sanitary expert in this country —the man who made the building of the Panama Canal possible by making the Canal Zone sanitary; Dr. Wm. T. Sedgwick, Professor of Biology and Public Health, Massachusetts Institute of Technology, and President of the American Public Health Association; Prof. C. E. A. Winslow, Director of the Division of Publicity and Education of the New York State Department of Health, who is soon to become professor of public health in Yale University; the Hon. William C. Redfield, Secretary, Department of Commerce; the leading health officers of the Dominion of Canada, and the health officers and directors of the laboratories of nearly every state and important city of the country.

September 16. A call from the local board of health of Anson was the cause of a visit to the villages of North Anson and Anson for the purpose of advising the local board of health in regard to certain nuisances in those two villages.

September 20. A visit was made to Bingham for the purpose of advising the local board of health of that town in relation to certain conditions in the village against which complaints had been made.

September 22. With the local boards of health of Rockland and Camden, the inspection was made of certain unsanitary conditions.

September 30. A visit was made to Presque Isle at the request of the local board of health for the purpose of looking over the water supply of the village and advising in regard to it. The conditions were found to be faulty and later action was taken by the Utilities Commission in regard to the matter.

October 15. At a request from the local board of health and citizens of Westbrook, an inspection was made of the piggery owned by the city of Portland adjoining the municipal boundary of the city of Westbrook. The conditions were found to be decidedly faulty and the testimony which was given by the citizens of Westbrook made it plain that the condition of the piggery had very frequently been a serious nuisance to the residents of the Cumberland Mills portion of the city of Westbrook.

October 23. The village of Lincoln was visited under this date in answer to a call from the local board of health. The sewage from the hotel in the village had plainly been a serious nuisance to the residents in some parts of the village. After a conference with the owner of the hotel he readily agreed to make the necessary improvements, such improvements as would be satisfactory to the local board of health.

October 29. Accepting an invitation from the Boston Board of Trade, the secretary was present at a milk conference which was held under the auspices of that body. At that conference very interesting lectures illustrated with lantern slides were given and the discussion which followed was also helpful to official and non-official workers for the improvement of the

conditions under which milk is produced and distributed to consumers.

November 5. A visit was made to Waterville to see a suspicious case which the secretary found to be chickenpox.

SCHOOLHOUSE PLANS

An addition to the work of the state board of health was made by the enactment of Chapter 88 by the Legislature of 1909, in which it is provided that when, in the building of new schoolhouses, the plans which may be had from the office of the state superintendent of schools are not used, superintending school committees shall make suitable provision for the heating, lighting, and ventilating and the sanitary conditions of such buildings, and all plans and specifications for any such proposed school building shall be submitted to and approved by the state superintendent of public schools and the state board of health.

Under the operation of this salutary act there has been a very great improvement in the character of the school buildings which have been erected in the state in the last few years. The report of the state board of health for the year 1801, almost a special report on schoolhouses and school hygiene, contained an illustrated paper on that subject, was commended at home and abroad, was used as a text-book on school hygiene in the normal schools and departments of pedagogy in some of the universities of the other states, and was helpful to workers for the betterment of school conditions in this state; but under the operation of this law of 1909 the rate of improvement in the hygienic and sanitary conditions of our schools has been greatly accelerated. Many of the recently erected buildings are model schoolhouses. The architects generally are submitting much better plans and school committees are coming to have a more correct appreciation of the special requirements of buildings for the housing of children during their school hours.

EDUCATIVE WORK

As time goes on and experience accumulates, departments of health and the various cooperative workers for improving the health conditions of states and municipalities are coming to emphasize more and more strongly the good, the indispensable value of work done with the view of teaching the public that it is indeed practicable to control and lessen the prevalence of those diseases which are laying upon us year after year burdens hard to bear—death-rates much higher than they need be, loss of the time of the sick and of their attendants, and excessive financial expenditures. To do its best work, the department of health, state or local, must have the ready cooperation of a people who understand that sickness-rates and death-rates may be lessened, and human efficiency and happiness be increased at a cost which is slight in comparison with the burdens which preventable illness imposes.

The following letter answering an inquiry from another state about the educative work of the state board of health of Maine, may serve to give readers in Maine some idea of how the educative work of the board is carried on:

"Referring to your letter of April 3, we have in this state been carrying on our educative work about as they have been doing similar work in other states, by means of bulletins, circulars, etc., for general distribution or for helping local health officers in doing their work; by means of travelling exhibits relating to tuberculosis, school hygiene, child welfare, rural hygiene, etc., and exhibits and demonstrations at state and county fairs; but in addition to that there are possibly two methods which have been used by us in a sort of intensive way of furnishing instruction to rural communities about health matters.

"The first of these is the publication in large editions of practical leaflets on health topics for distribution through the schools. The system is, briefly, the getting of the cooperation of local superintendents of schools and then on our part offering to supply the local superintendent with a large enough number of copies of each of the leaflets, preferably distributed only one or two at a time, so that the superintendent may furnish each of his teachers a sufficient number to enable the teacher to send through the hands of the pupils a copy to every home represented by pupils in his school. The idea of this board is that we want to get these leaflets right into the homes, and particularly into the hands of the mothers.

"A circular letter which we send out advises that before the leaflets are put into the hands of the pupils to carry to their homes, they shall be used by the teachers in giving health talks on the subjects of which the leaflets treat. This method of getting information directly into the homes of the people in the rural communities has been very satisfactory to our board and has also brought to the office many letters of appreciation from the superintendents of schools and their teachers.

"A year or two later, or more definitely three years ago, an arrangement was made for the giving of health talks before the granges in this state. An arrangement was, therefore, made with a woman who is a pleasing and very effective speaker and who had been connected with the granges for a dozen years or more in doing work for the master of the State Grange, to give a series of lectures before the granges, her talks to be illustrated with lantern slides. Her services in giving these talks for our board have been very highly appreciated and there are almost constant calls for her educative work: for instance, some weeks ago she went to the northern part of this state, into Aroostook county, and spent ten or twelve days in giving a series of talks before the granges, and while there she had numerous applications from the granges in neighboring towns to come to them, but on account of her engagements in this part of the state she was obliged to return earlier than they wished. I have arranged to send her up there again for another quite long campaign a little later in the season.

"In addition to the services of the speaker to which I have referred, we made arrangements last fall to have a trained nurse, who is a very effective speaker, give a series of demonstrations and talks on First Aid, on the care of the Sick in Country Homes, and on some other topics. Her work was very highly appreciated, but recently through the advice of her physician, this speaker has been obliged to discontinue her work

"Aside from the work which we have thus been doing with our own speakers, I have made it a point whenever I learn that any local worker or workers are seriously trying to do something, to write to them offering to help them by sending them the publications of this office which we have for distribution, or pamphlets and books which we have in the special library which I have been getting up for the use of persons who wish to cooperate with us. If they wish to speak to the public on health topics, I offer to send them sets of lantern slides to illustrate their lectures, and if a stereopticon is not available, I very often send one to them through the hands of one of our clerks who is trained to run instruments of that kind. She shows them how to use it and sometimes remains to run the slides through for them while the local workers are giving the talk.

"Usually these sets of lantern slides are accompanied by notes, or an outline lecture, or lecture. We have the following sets of lantern slides with lectures to accompany them:

"'Tuberculosis No. 1' has been down in Washington county for eight months or so in the hands of the anti-tuberculosis nurse. We have furnished the nurse not only the lantern slides and the lecture, but a stereopticon, screen, and lighting outfit.

"'Tuberculosis No. 2', with the same kind of outfit, has been in the hands of the anti-tuberculosis nurse in Piscataquis county for about the same length of time.

"'Tuberculosis No. 3' is kept in this office principally for cooperative work, sending it to persons who may wish to do work in their communities.

"The subject of 'Rural Hygiene' and an ample outfit is in the hands of our lecturer who speaks before the granges.

"'Infectious Diseases', 'Dental Hygiene', 'School Hygiene', 'Boy Scouts', 'Milk for the Baby, Safe and Unsafe', 'Saving the Babies', 'Feeding the Baby', 'Child Welfare—General Care of the Baby', are other sets of slides which we have made up and keep by themselves accompanied by outline lectures ready to go with them.

"We began four or five years ago to get together a collection of lantern slides from various sources from all over this country and a few from abroad, and now we are making some here in the office working up Maine material so far as we can. We have about two thousand slides now."

The illustrated talks before the granges mostly on the subject of the health of country homes were so highly appreciated that from the secretary of the state grange there came a request for the extension of the lectures to other topics. The result was that after a consultation about the matter the following letter was issued by the secretary of the state grange:

"To the Patrons of Maine:

"Arrangements have been made with the State Board of Health to furnish Lectures with demonstrations and illustrations before the Pomona and Subordinate Granges in Maine on Hygiene and Health Topics, among which are: Home Nursing or care of the sick in country homes, First Aid in accidents, or help until the doctor comes, School Hygiene, Tuberculosis, Mouth Hygiene, Child Welfare, Rural Hygiene, etc.

"Lectures on some of these subjects can be given at short notice if dates have not already been fixed for other places. The safest way will be to arrange with the board a few weeks in advance.

"These lectures will be given free of expense to the Granges but where it is necessary for the speaker to remain over night the Grange will of course furnish entertainment. It is recommended that where two or three Granges are located near one another they unite in furnishing an audience and that the lectures be public.

"Bring pencil and paper to take notes. These educational lectures are fully endorsed by State Master Stetson and State Lecturer Purinton.

"Granges wishing these lectures should write to. Secretary, State Board of Health, Augusta, Maine.

Fraternally,
(Signed) E. H. LIBBY,
Secretary, Maine State Grange.

It was a disappointment to all concerned that after carrying on this additional work for half a year a temporary discontinuance was forced by the illness of the trained nurse who was doing the work, mostly in giving first aid instruction, the want of which is very often keenly felt in rural homes, and home nursing.

One of the kinds of work which has reached many people and has undoubtedly been helpful to many is that which has been done at the agricultural fairs by means of wall exhibits, distribution of literature relating to health improvement to those to whom it will do good, and the giving of talks illustrated with lantern slides. Aside from the many commendations which this work has received, three other incidents connected with it have led us to believe that it has done good and is appreciated. (a) Every succeeding year a larger number of persons have come equipped with pencil and note book, (b) crowds of listeners have sometimes been held, giving close and serious attention meanwhile, for two hours or more as our speakers or demonstrators have taught them, (c) when, sometimes, a few scenic views have been slipped in, the crowd is much more likely to thin out, indicating, apparently, that the people were seeking information which might help them to better the conditions under which they live and work.

The board regrets very much that far less of this work at the fairs was done in 1915 than it was planned to do.

For some time the board has felt that work should be done for the people in our industrial centers in teaching them how to help themselves in improving the conditions under which they live and rear their children. The secretary has been authorized to begin that work as soon as he may find it possible to do so.

STATE LABORATORY OF HYGIENE.

Report for 1914-1915.

by

H. D. Evans, Director.

During the period covered by this report there has been no change in the character of the work done at this office. Its two branches, chemical and bacteriological, have been confined strictly to the routine work of the past, with no opportunity for independent investigation of any kind.

At the beginning of this period, owing to the transfer of the milk work of the Department of Agriculture to the Experiment Station the previous year, the laboratory was instructed to do no further testing of cream samples for that office if it in any way took time from the regular work of the laboratory. As a result there has been but little work done during the past years along dairy lines.

The legislature of 1915 granted an increase in the appropriation of the laboratory of \$1,000 for the purpose of enabling the office to employ an additional chemist. As noted in my last report this had become absolutely necessary if the amount of routine work that was coming to us was to be done. As this appropriation did not become available until the first of July 1915 it was necessary to continue to force the laboratory workers up to that time, but since the above date the additional help has enabled us to meet all demands without undue overwork of the office force.

During the legislative session of 1915 a determined effort was made to obtain an appropriation for a suitable laboratory building. While the bill was reported favorably from the committee it failed of passage by the various bodies. Later in the year the erection of a new office building in the city offered opportunity for obtaining good quarters without the erection of a separate building.

The experience of the past legislatures, indicating that it was not the intention of the State to combine the food work with that of the State Board of Health, it seemed possible to obtain first-class quarters of sufficient size to carry on all possible work of the present character in this new building, and at a cost not in excess of that of doing the same work in the old quarters.

These latter were far from satisfactory, and were in need of much repair, which would have to be borne by the laboratory. In view of the above facts, and of the fact that the lease had but 9 months to run, the Governor and Council authorized the laboratory to secure quarters in the new Purinton Block on Water street under a five year lease. During December 1915 these quarters were in process of preparation. Four rooms are available, i. e., an office room, a chemical laboratory of good size, a well lighted bacteriological laboratory, and a large room for storage and shipment of supplies and outfits. Good ventilating arrangements are being installed, and, on occupancy of these quarters, the laboratory will be in better condition to do its work than at any time since its establishment in 1902.

The laboratory force has remained the same, save during the last six months, Mr. V. C. Woodbury entered the employ of the laboratory in July 1915 as an assistant. During the summer of 1914 Mr. L. S. Pratt was engaged as assistant in the water laboratory for three months, and during the summer of 1915, Mr. James was engaged for the same work.

The lines of work have remained unchanged during the past two years. Practically no milk work is now done at the laboratory, and so the chemical work is practically confined to water analyses. This work has steadily increased and now occupies fully the time of the chemical force. Along bacteriological lines examinations are made for the Tubercle bacillus, the Diphtheria bacillus, the Gonococcus of Neisser, and Typhoid agglutination tests run on blood. In addition examinations of pus for the infecting organism is made as wished.

During the past two years we have examined 242 samples of milk and cream. Out of this total 156 samples have been creams for butter fat test: 85 samples have been milks from local milk inspectors or health officers, and one sample has been mother's milk. I do not tabulate these samples or speak

of their condition as they are too few in number to draw any conclusions from.

Water Analyses. As in the past the work of the laboratory during the last two years has been along the lines of analysis of both public and private water supplies; and there has been an increase in both classes of analyses during the period covered by this report.

The total number of water analyses made during 1914 and 1915 was 3,165. These samples have come from 345 different cities, towns, villages, and plantations, covering every section of the State. Outside of the samples from the public water supplies of the State the greater part of the remaining samples have come from the rural parts of the State, so that we can get a very good conception of the ground water supply of the State from these accumulated analyses.

Out of this total of 3,165 water samples there were 1,191 samples from the public water supplies of the State. Of course these public water supplies are from ground water sources as well as surface waters. The tables in the pages devoted to the public water supplies of the State give the source of each of the supplies, and no discussion of these waters will be attempted here.

The increase in the number of samples examined during the years 1914-1915, over those examined during the years 1912-1913, has been 16.9%, or an actual numerical total of 458 more samples. The handling of this large number of water samples, together with all of the routine bacteriological work which appears later in this report, must be considered a very creditable performance for the laboratory, especially in view of the fact that for 18 out of the 24 months covered by this report the work was done by but two men.

Separately classified we find these 3,165 water samples falling under the following headings:—Dug wells, 977: drilled and driven wells, 361: springs, 732: ponds, 623: streams and brooks, 200: rivers, 215: cisterns, 6: ice, 51. In each of these classes there is an increase in the number of samples over the corresponding class for the years 1912-1913, except in the class of cistern waters.

The most noticeable increase has occurred in the drilled and driven well samples. From the records I find that these sam-

ples have been quite largely derived from new wells, which would lead to the conclusion that there is an increasing use of such wells in this State. The increase in the number of samples in this class, over the previous 2 year period, was 108%.

The use of drilled and driven wells is to be encouraged, provided ordinary foresight is used in selecting the site of the wells. Given a proper location these wells eliminate the most important source of pollution to which our dug wells are subject, i. e., surface wash. The proper construction of drilled and driven wells renders such pollution almost an impossibility. In our rural communities the greatest danger to our domestic water supplies comes from the direct entrance of surface wash into the well with the ordinary stoned construction. Not only this, but the well accumulates much organic material in its bottom. and the rotting of this causes very disagreeable odors. Nothing of this kind can occur in the two above types of wells. It can be accepted as axiomatic that a driven well will yield a water of more stable character than will an ordinary dug well in the same location, and one far less likely to temporary pollution by surface drainage.

In this State we encounter drilled wells in two formations. The wells in the granites are practically sure to yield safe drinking waters. The only trouble that is likely to arise from these wells is scarcity of yield. Drilled wells in the limestone formations, or in the calcarious slate formations, rarely cause trouble from insufficient yield, but are likely to cause trouble from pollution of the water. No drilled well, in such a formation, should be used as a source for a drinking water supply until it has been examined, and the examinations should be continued in order to be sure that the water is maintaining its condition.

The reasons for the above statements are obvious, when the formations themselves are considered. The granites are laid down in horizontal layers, and the cleavage planes, in which the water is found, are, roughly, parallel with the surface of the ground. Water to enter these cleavage planes must have settled down through the soil to a great extent before reaching the cracks. As a result the water has been subjected to the oxidizing action of the soil bacteria in the upper soil layers, and to thorough mechanical straining by its long pas-

sage through the soil. It is rare to find a water from a drilled well in such a formation polluted, if the well casing is tightly cemented into the rock.

Along our Maine coast we have a considerable number of drilled wells in the granite formations. The only trouble that has been reported from these wells is smallness of yield, and, in the cases of wells near the shore and extending below high water mark, the influx of sea water when the well is pumped to an excessive extent.

On the other hand the limestone formations are easily channeled by the water, which comes down to them from the surface. Along these channels any impurity in the surface water readily runs, without chance for any purifying action from the soil bacteria. If this surface wash is polluted at the point of entering the rock the pollution is practically piped to the point where the well taps the water.

The calcarious slate formations in this State are usually sharply inclined. The water is contained in the channeled calcarious cementing material. The outcrop of the tapped strata is usually very near to the point where the well enters it. Any pollution at the point of the outcrop of the strata will be piped into the well in an almost direct manner. Wells in such a formation are a pure gamble at the time of sinking, and need constant oversight, as the increasing density of population may at any time result in pollution of these waters. We have had samples from deep drilled wells in calcarious slate that were domestic sewage pure and simple.

Out of the total samples of the past two years we have found 300 that contained lead. In every case these waters have flowed through lead pipes. This makes a total of 1,474 samples of water in which we have found lead in the State. I can but repeat my warning, contained in my last report, that lead pipe cannot be used with safety with any ground water in this State, save in the hard waters of the limestone formations, and even then only when these waters are free from even past pollution.

During the past two years we have made a very large number of analyses of water, and several analyses of ice, for the Railroads and Boat lines in the State that do an interstate business. The U. S. Treasury Department now requires cer-

tification of the water and ice supplies used in interstate traffic. In order to avoid the trouble of meeting the call for analyses for these certificates from the transportation companies at varying seasons we have made arrangements to make one analysis of each year's ice crop and two analyses each year of their various water supplies, and to do this during our slack months on water work. This meets the requirements of the Treasury Department, and greatly facilitates our own work. The Maine Central Railroad Company, the Bangor & Aroostook Railway Company, the Canadian Pacific Railway Company, the Portland Terminal Company, The Eastern Steamship Corporation, the Casco Bay & Haroswell Lines, and the Wiscasset, Waterville & Farmington Railway Company have their Maine water and ice supplies taken care of in this manner. As many of these companies take their supplies from the public water supplies of the various towns we thus have extra analyses of these waters, in addition to the regular quarterly analyses.

PUBLIC WATER SUPPLIES.

During the past two years we have examined 1,191 samples of water from the public water supplies of the State. 132 different water supplies have furnished these samples. This does not include all of the public water supplies of the State, but does include all of those from which we can obtain samples. In the case of some supplies we are unable to obtain samples from the company that furnishes the water, or from the local health officers of the town. There is no authority to compel the submission of samples, which is voluntary on the part of either water company or health officer.

The experience of the past two years with the Public Utilities Commission has shown the value of our routine analyses. Regular examination of the water from the supplies of all water companies should be required by law.

The character of the water supplies of the State varies very greatly. The variation is not only in actual freedom from pollution, but in physical appearance as well. We have waters that are absolutely free from pollution, but carry a very high color and vegetable content. In one case we have a water with a persistant turbidity, which is probably due to improper location of the intake within the reach of shore wash. In several cases

we have waters that are absolutely unfit and unsafe to use for drinking.

The State Board of Health, and the laboratory, have nothing but advisory functions in the matter of water control. They may know that a water is absolutely unfit to use for domestic purposes, and yet all that they can do is to warn the users of the trouble. They can compel no correction of the danger. In addition they are hampered through the lack of an inspector. All information that they may derive, relative to a water supply and its sanitary surroundings, are those which the water company or the local health officer may supply them with. There is no opportunity for actual knowledge of local conditions. Yet these conditions may be such that pollution of the water at times may be certain. Unless samples of the water can be obtained under these transient conditions the laboratory can have no idea of the condition of the water supply as a whole, and has to form its judgment of the water supply on its condition at the time of the particular analysis.

There is, of course, no question but that a public water supply should be safe at all times. To be safe most of the time, and unsafe for short and even rare periods, does not justify the use of the water for domestic purposes. Sanitary inspection of the watershed of our surface water supplies will at once show the possibilities of pollution of the water supply, and will suggest the means of preventing the pollution, or of purifying the water before its use. Unless the analysis catches the water during one of its brief periods of pollution the laboratory will consider it safe, as it will have to base all of its judgment on the analyses alone, without any chance of knowledge of local conditions.

During the past year knowledge gained of local conditions has caused a complete reversal of judgment in the case of two water supplies of the State. This knowledge was obtained through the kindness of the Engineer of another State Department. If the State Board of Health is to do even its advisory duty in the manner it should be done there is immediate need of a sanitary inspector.

While the State Board of Health has no authority in compelling the correction of pollution of the public water supplies of the State, and has never been able to obtain such authority from the legislature, yet the past year has given us a remedy for existing conditions if the people, served by the offending companies, wish to employ it. All of the water companies of the State are public service corporations, and, as such, come under the jurisdiction of the Public Utilities Commission. This Commission can compel correction of existing conditions along the line of polluted water supply, and has twice issued its orders to that effect during the past year.

The laboratory has furnished its records in each of these cases, and has done the actual work of analysis of samples for the Commission, the collection of the samples being done by an agent of the Commission. The two cases in question will be noted in their proper places.

It may be generally stated that the water supplies of this State at this time are safe to drink when derived from the quiet waters of our ponds and lakes, and from drilled or driven wells and springs, but unsafe to drink when derived from our rivers. The exceptions to this latter statement occur in the unsettled portions of the State.

Our towns and cities are mainly situated on the coast or on rivers or streams that furnish either transportation of material, or power for industry. Naturally the place where they empty their domestic and trade wastes is the nearest watercourse, be it sea or river. We should expect such use to be made of the rivers of the State, and to have such use increase with the increase in both population and manufacturing.

In the case of a State devoid of lakes and ground water resources it is both right and necessary to compel careful treatment of trade and domestic wastes before they enter the rivers, as it is in such cases necessary to use the river waters as sources for public water supply. In a State that can obtain its public water supplies from other than running waters there is no excuse for the use of these waters for drinking purposes. The populations on the banks of the river render the water unsafe to drink without filtration. To filter a polluted water when an unpolluted source of supply is easily available and financially possible is worse than folly. Filtration of a water involves human and mechanical factors, both liable to failure at times; while these times are usually those when the condition of the raw water is most dangerous, and its treatment is therefore

putting an extra strain on the filtering apparatus, both human and mechanical.

In this State there are few cases where it is either physically or financially necessary to use water from any but an unpolluted source; and this office always advises against the use of water from a river as a source for a public water supply. When the water is taken from the upper reaches of a river, and at a point now free from pollution, it must be definitely understood that the water, while now safe, will in the future need purification, for the march of population is up the valleys of our large rivers.

It will, therefore, not be surprising to find in the following tables that the towns which take their water from the large rivers of the State have polluted supplies, save in those instances where the river waters are filtered before their use.

On the following pages are incorporated the tables of analyses of the waters from the public water supplies of the State during the years 1914-1915. Except in the case of new supplies, or of those where there has been some change during the period in question, there is no descriptive matter added to the tabulations, as such descriptions as we have of the source of the individual supplies has been incorporated in the previous reports of this office.

ALFRED.

During November 1914 there was complaint of the odor and taste of the water from certain parts of the system of this company. Examination of the water showed it to be of high color, slight turbidity, and of high iron content of these points, with the presence of Crenothrix. The water was free from pollution by sewage wastes of all kinds. Flushing the mains removed the trouble. The water still carries a higher iron content than before this trouble occurred. There is probably some action of the unusually soft water on the pipes.

ALFRED.

			Арриа	RANCS.		ON I	IDUE EVAP- TION.	Axm	ONIA.	Nite			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummotd.	Nitrates.	Nitritos.	Chlorine.	Hardness.
8410 8840 9240 9308 9587 9885 10120	Jan. 26, 1914 May 4, 1914 July 27, 1914 Nov. 2, 1914 Nov. 14, 1914 Feb. 1, 1915 April 27, 1915 June 14, 1915 July 27, 1915 Nov. 9, 1915	0 0 0.4 0.2 0 0.2	0 0 0 0 0	Moldy Veg. Grassy Veg. Moldy Slight Veg. Veg. Veg.	1.2 1.6 1.0 1.1 7.5 1.9 1.4 1.9	3.6 2.1 3.0 2.5 2.8 2.8 1.6 2.4 2.4 2.8	2.2 1.0 1.6 1.3 1.7 1.3 0.6 1.0 1.1	.0008 .0090 .0014 .0032	.0114	Trace 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.20	0.9 0.5 0.6 1.2 1.0 1.2 0.3 0.6 1.0

ANDOVER.

The water from this supply has maintained a safe and a satisfactory condition during the past two years, and no complaint of any kind has come to us relative to its condition.

ANDOVER.

			Арреа	rance.		ON I	IDUE EVAP- TION.	Аммо	ONIA.	Nitre			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8753 9154 9511	April 13, 1914 July 13, 1914 Oct. 12, 1914 Jan. 12, 1915 April 4, 1915 July 5, 1915	0.2 0 0 0	0 0 0 0 0 0 0 0 0	0 0 Veg. Veg. Veg. Veg. Veg.	1.2 1.3 7.5 1.3 1.6 2.1 3.2 4.2	5.9 3.8 2.8 2.8	2.1 1.8 1.9 2.5 1.8 1.9 1.2 2.6	.0008 .0014 .0004 .0008	.0266 .0122 .0062 .0054 .0126	0 0 0 0 Trace 0 0	0 0 0 0 0 0	0.04 0.06 0.12 0.08 0.04	1.3 0.9 1.2 1.8 1.0 1.5 0.9

AUBURN.

			Арриа	RANCE.		RESI ON E		Аммо	INIA.	Nite			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8584 8813 9227 9384 9554	April 28, 191- June 8, 191- July 21, 191- Oct. 27, 191- Dec. 7, 191- Jan. 25, 191 April 30, 191 June 2, 191 July 27, 191 Nov. 9, 191	0.5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slight Grassy Grassy 0 0 Grassy Slight Grassy Slight Slight Slight	0.5 0.1 0.4 0.2 0.2 0.2 0.4 1.6 0.1 0.2	3.1 3.0 3.0 3.0 2.9 3.7 3.8 3.2 2.6 3.5 3.2	1.8 2.2 1.9 1.6 1.9 2.5 2.3 1.4 1.2 1.2	.0006 .0006 .0004 .0012	.0094 .0112 .0094 .0104 .0086 .0084 .0078 .0124	0 0 0 0 Trace 0 0	0 0 0 0 0 0 0 0 0 0 Trace	0.27 0.22 0.20 0.18 0.22 0.23 0.22 0.21 0.24 0.21 0.22	1.3 1.5 1.4 1.6 1.6 1.6 1.6 1.6 1.0

AUGUSTA.

			Аррва	RANCE.			DUE VAP-	Амм	ONIA.		ogen B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrater.	Nitrites.	Chlorine.	Hardness.
8338 8596 8960 8914 9178 9405 9552 9820 10112 10300 10878	Dec. 12, 1914 Jan. 21, 1915 April 16, 1915 June 14, 1915	0 0 0.3 0.2 0 0	000000000000000000000000000000000000000	Grassy Veg. Veg. Grassy Veg. Veg. Veg. Grassy Grassy Veg. Veg. Veg.	1.4 1.4 1.5	3.7 3.6 3.1 4.1 3.6 3.1 3.8 3.9 4.4 3.5	2.3 2.0 1.7 1.9 2.4 2.2 1.7 2.0 2.4 1.7 1.5	.0008 .0022 .0002 .0008 .0006 .0012	.0156 .0120 .0134 .0178 .0112	Trace 0 0 Trace 0 0 0 0 0 Trace 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.16 0.19 0.18 0.20	1.7 1.5 2.0 1.6 2.0 1.5 1.5 1.8 1.6 1.5 1.9

BANGOR.

During the past two years this city has maintained its filter plant at a high state of efficiency. The only time that criticism has been passed on its operation was in December, 1915, when the sample from it contained a trace of suspended hydrate of aluminum.

BANGOR.

			APPRA	RANCH.		ON I	IDUB EVAP- TION.		ONIA.	Nita A	ograf S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardnes.
8645 8627 9141 9402 9497 9778 10071 10235 10666 10966	April 14, 1914 June 23, 1914 July 7, 1914 Oct. 12, 1914 Dec. 9, 1914 Jan 11, 1915 April 6, 1915 June 7, 1915 July 6, 1915 Oct. 4, 1915	000000000000000000000000000000000000000	000000000000000000000000000000000000000	Veg. Veg. Veg. Woody Veg. Slight		5.2 5.1 5.8 6.3 5.1 4.5 4.1 6.8	4.2 8.4 3.7 3.3 3.1 3.8 4.0 3.1 2.5 2.7 2.4 4.1 3.8	.0016 .0014 .0004 .0006 .0012 .0012 .0008 .0006 .0008 .0006 .0006	.0076 .0060 .0066 .0076 .0082 .0060 .0072 .0068 .0188 .0092	0 0 0 0 0 Trace Trace 0 Trace 0 0 Trace	000000000000000000000000000000000000000	0.12 0.18 0.07 0.07 0.12 0.17 0.11 0.20 0.12 0.10 0.15 0.13	1.2 1.4 1.9 1.2 2.2 2.5 3.0 1.5 1.3 1.3 1.1

BAR HARBOR.

			Арриа	RANCE.		ON I	idub Evap- Tion.		ONIA.		OGEN LS		
N umber.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitratos.	Nitrites.	Chlorine.	Hardness
8641 8758 9206 9430 9523 9858	April 22, 1914 June 22, 1914 July 13, 1914 Oct. 24, 1914 Dec. 15, 1914 Jan. 18, 1915 June 12, 1915 July 19, 1915 Sept. 1, 1915 Oct. 18, 1915	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 Rust 0 0 Veg.	Grassy Veg. Grassy Grassy Veg. Veg. Veg. Veg. Veg. Veg.	0.4 0.6 0.2 0.3 0.3 1.3 0.6 0.7	2.5 3.0 3.6 2.3 3.0 2.8 2.4 2.6 2.8	2.5 1.7 1.3 1.8 1.4 1.4 1.0 1.1 1.5 1.5	.0006 .0006 .0004 .0020 .0006 .0006 .0008 .0008 .0002 .0010 .0002	.0082 .0070 .0084 .0094 .0066 .0082 .0086 .0082 .0086 .0082 .0090 .0090	Trace 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0.56 0.55 0.54 0.57 0.61 0.60 0.61 0.60 0.55 0.63 0.52	0.8 0.8 0.9 0.6 0.9 1.0 1.0 0.8 1.0 1.44 1.0

Ватн.

The last legislature incorporated the Bath Water District. At the time of making this report valuation of the plant of the Maine Water Company is being made preparatory to its being taken over by the Water District. No change in the source of supply is contemplated. The water from both the Thompson Brook and Nequasset Lake supplies of this city has been in safe condition. The Nequasset water is the preferable one for

use, and has been so employed during the past two years. No trouble from algae growths have been experienced in the lake during this period.

TR A	TH_	NEOTIA	CCTT	TARE	SUPPLY.
DΛ		NEGUZ	LOOL	LAND	SUPPLY.

			Appra	RANCE.		ON I	DUE EVAP- TION.	Ами	MIA.		IOGEN IS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nftrites.	Chlorine.	Hardness.
8391 8554 8812 9226 9355 9569	July 26, 1915 Oct. 25, 1915	0.9 0.2 0.2 0.8 0.8 0.3 0.4 0.3	0 0 0 0 0 Clay	Moldy Graesy 0 Veg. Slight Veg. Veg. Veg. Veg.	1.5 1.3 1.7 2.1 2.0 3.9 3.7	3.5 3.1 3.0 3.9 4.3 4.0 3.4 2.7 3.7	2.7 2.2 2.0 1.4 2.6 2.0 2.3 1.8 1.2 1.2	.0008 .0014 .0008 .0008 .0014 .0020 .0028 .0004	.0066 .0110 .0124 .0098 .0136 .0128 .0102	0 0 0 0 0 Trace 0 0 Trace	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.42 0.33 0.36 0.25 0.38 0.39 0.42 0.38 0.24 0.25 0.28	0.8 0.9 0.9 0.8 1.2 1.0 1.3 1.2 0.8

BATH-THOMPSON BROOK SUPPLY.

			Аррба	RANCE.		ON I	idue Evap- Tion.	Ажы	ONIA.	Nith	ogen e		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8810 9224 9570	April 28, 1914 July 21, 1914 Oct. 27, 1914 Jan. 26, 1915 April 19, 1915 July 26, 1915	0 0 0 0.3	0 0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg.	1.8 7.0 3.1 1.5 6.5 8.0 9.0 2.1	3.9 3.7 3.3 5.3 3.9 4.2	3.3 2.0 2.0 1.8 3.0 1.4 1.2	.0006 .0012 .0006 .0014	.0122 .0150 .0168 .0188	0 0 0 0 0 0 0	0 0 0	0.49 0.40 0.40 0.44 0.44 0.37 0.44 0.42	1.3 0.8 0.8 1.5 1.6 1.0

BELFAST.

In 1914 a filtration plant of the mechanical type was installed at Belfast by Mr. R. S. Weston, of Boston. The water was carrying a high color and organic content, and was, at times, exceedingly turbid. This plant has had to work under difficulties as it has had to handle a water whose organic material was not "old," and to operate without the attention of a skilled

attendant. The results therefore, have not been as good as were expected. There has been considerable aluminum hydrate in the filtered water. This may have been due to faulty operation of the filters, and, in some instances, has undoubtedly been due to incomplete coagulation before the water reached the filters. Steps are being taken to remedy the troubles with this plant as fast as possible, and it is hoped to soon have it operating properly.

During the period covered by this report the water has not been in satisfactory condition at all times, but the complaint has been on account of the above operating troubles, and not on account of sewage pollution of the water. The elimination of the hydrate of aluminum from the filtered water will give a water safe to use for all domestic purposes.

BELFAST.

			Appeal	RANCH.			DUB VAP- TION.	Амм	ONIA.	NITE			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness
8115 8192 8408 8609 8854 \$8940 *8942 '8943 9261 9353 9603 9768 10088 10088 10426 10694	June 8, 1915 Aug. 3, 1915 Oct. 7 1915 Nov. 29, 1915	0.6 0.4 0 0.6 0.7 1.5 0.3 0.3 0.7 0.2 0.4 0.5 0.1	0 0 0 0 0 0 Veg. Veg. Al(O H)s 0 0 Al(O H)s 0	Slight Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	1.9 1.6 3.1 0.8 1.4 0.3 0.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	4 0 4 2 4 8 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2 6 8 3 0 4 1 1 4 0 1 2 6 6 4 4 5 1 3 2 7 3 6 4 0 5 3 3 5 5 5 5	0012 0008 0022 0004 0010 0012 0008 0014 0080 0034 0008 0014 0012 0012 0018 0078	.0128 .0112 .0086 .0092 .0094 .0276 .0530 .0298 .0118 .0096 .0110 .0074 .0118 .0096 .0112 .0136 .0214 .0068	0.02 0 Trace Trace 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.37 0.36 0.41 0.32 0.27 0.32 0.32 0.32 0.32 0.40 0.40 0.40 0.41 0.34 0.36 0.56	1.3 1.1 1.2 1.3 1.4 2.3 2.5 2.3 1.9 1.8 1.3 1.2 2.0 1.3 1.2 1.3

[‡] Raw water.

[†] Raw water.

^{*} Sedimentation basin.

^{&#}x27; Filtered water.

BERWICK.

DATE OF COLLECTION.				Appra	BANCE.		on I	IDUE EVAP- TION.		ONIA.		OGEN 18		
8982 Aug. 17, 1914 0.7 0 Woldy 1.6 6.2 4.1 0006 0132 0 9994 Nov 10 1914 0 0 Woldy 1.7 5 9 3 9 0024 0212 0 02	Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9623 Feb. 8, 1915 0 0 Veg. 3.3 7.4 4.3 0048 0174 0.02 9701 Mar. 10, 1915 0.2 0 Veg. 3.3 4.6 2.9 0012 0126 Trace 9926 May 3, 1915 0 0 Grassy 1, 7 5.6 3.7 0014 0142 0.03 10462 Aug. 10, 1915 0 0 Veg. 7.0 7.0 3.8 0026 0244 0.03	8489 8982 9294 9623 9701 9926	May 19, 1914 Aug. 17, 1914 Nov. 10, 1914 Feb. 8, 1915 Mar. 10, 1915 May 3, 1915	0.7 0.0 0.2	0 0 0	Veg. Veg. & Moldy Moldy Veg. Veg. Grassy	1.6 1.7 3.3 3.3 1.7	6.2 5.9 7.4 4.6 5.6	4.0 4.1 3.9 4.3 2.9 3.7	.0006 .0024 .0048 .0012 .0014	.0132 .0212 .0174 .0126 .0142	0 0.02 0.02 Trace 0.03	0 0 0 0 0 0	0.65 0.66 0.44 0.34 0.42 0.31 0.68 0.45	1.9 1.9 2.1 3.0 2.5 2.0 1.6 3.0

BETHEL.

			Appea	RANCE.		on l	idue Evap- tion.	Амм	ONIA.		OGEN 8		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8779 9156 9516	April 13, 1914 July 13, 1914 Oct. 12, 1914 Jan. 11, 1915 April 3, 1915 July 8, 1915	0	0 0 0 0 0 0 0	Veg. Veg. 0 Slight Slight Slight	0.9 1.3 2.0 1.0 1.2 1.0 2.1	3.5 3.4 2.6 2.6 3.0	1.7 1.0 1.2 2.6 1.6 1.7 1.1	0008 0014 0012 0008 0006 0002	.0068 .0120 .0068	0 0 0	0 0 0 0 0	0.07 0.09 0.03 0.11 0.12 0.07 0.06 0.05	0.6 0.7 1.0 2.5 1.5 1.2 0.8 1.2

BIDDEFORD.

The operation of the filter plant of the Biddeford and Saco Water Company has been satisfactory during the entire period, covered by this report, and the filtered water from this supply has been first-class in every respect.

BIDDEFORD	MAR	WATER	COMPANY

			Аррва	RANCE.		on I	TION TION	Ажи	ONIA.	NITE			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitratos.	Nitrites.	Chlorine.	Hardness.
8351 8532 8714 9149 9489	Jan. 5, 1914 April 21, 1914 May 28, 1914 July 6, 1914 Oct. 12, 1914 Jan. 11, 1915 July 12, 1915 July 12, 1915 Oct. 4, 1915	0.8 0 0 0	0 0 0 0 0 0 0 0 0	Slight Slight Moldy 0 Veg. 0 Veg.	0.2 0.2 0.2 0.1 0 0.3 0.4 0.2	4.0 3.4 3.4 3.3 2.8 3.4 2.8 4.2 2.9	2.8 2.2 2.5 2.3 2.5 2.1 1.5 2.5 1.2	.0020 .0006 .0006	.0054 .0080 .0068 .0044 .0044	0 0 0 0 0 Trace	0 0 0	0.22 0.13 0.10 0.11 0.12 0.19 0.14 0.07	1.5 1.5 1.3 1.0 1.9 1.6 1.2 1.0

BIDDEFORD POOL.

This water is used only during the summer season. The supply is from driven wells, and has been in good condition during the past two summers.

BIDDEFORD POOL.

			Appra	RANCE.		RESION E	VAP-	Амж	ONIA.	Nitr A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9039 10158	July 13, 1914 Sept. 3, 1914 June 20, 1914 Sept. 20, 1915	0	0	Slight Veg. 0	0 0 0.1 0.2	14.8 12.6	10.5 9.0	.0014 .0010 .0030 .0014		0.13 0.12 0.08 0.29	0.0003 0.0002 0.0003 0.0003	2.23 4.03	2.7 4.13 3.0 5.47

BINGHAM—CUMMINGS SPRING.

			Appea	RANCE.		ON E	IDUE CVAP- TION.	'Аммо	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9324 9634 9842 10425	May 5, 1914 July 30, 1914 Nov. 17, 1914 Feb. 9, 1915 April 20, 1915 Aug. 3, 1915 Sept. 22, 1915 Oct. 6, 1915 Oct. 6, 1915	0 0 0 0 0 0.2 0.6	0 0 0 0 0 0 0 0 Veg.	Slight Slight 0 Slight 0 Slight 0 Musty Rust 0	0.1 0.3 0 0.1 1.0 1.0 0.2 1.7 0.3 0	8.8	6.2 5.5 5.2 6.8 4.3 3.8 4.5 4.5 3.1 4.7 5.8	.0040 .0028 .0006 .0036 .0004 .0036 .0004	0046 0034 0062 0050 0048 0214 0180	0.23 0.16 0.16 0.17 0.09 0.12 0.11 0.03 0.05 0.14 0.20	0 Trace 0 0.0001 0 0.0001	1.30 0.71 0.46 0.42 0.42 0.43 0.36	4.1 2.8 3.3 4.6 3.0 2.3 4.0 4.7 3.0 3.1 2.8

BINGHAM WATER DISTRICT.

			APPE	ARANCE.		ON I	EVAP-	Аммо	NIA.	NITE			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8425 8868 9321 9483 9633 9841 0168 0419 0630 0631 0632 0688	Jan. 27, 1914 May 5, 1914 July 30, 1914 Nov. 17, 1914 July 30, 1914 Nov. 17, 1914 April 20, 1915 June 19, 1915 June 19, 1915 Sept. 22, 1915 Sept. 22, 1915 Sept. 22, 1915 Sept. 22, 1915 Oct. 6, 1915 Nov. 1, 1915 Dec. 21, 1915	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veg. Veg.	Veg. Veg. Grassy Veg. Veg. Grassy Veg. Veg. Veg. Veg. Veg. Veg. Veg. Grassy	1.9 0.8 1.2 0.4 1.1 1.3 1.6 2.1 1.9 1.6 1.6	4.2 3.8 4.0 3.7 3.8 4.6 3.2 3.0 3.5 4.4 4.1 3.8 3.6 3.1	2.8 2.3 2.2 2.5 2.6 2.0 1.4 1.9 1.8 2.4 1.3 1.8	.0142 .0012 .0018 .0012 .0088 .0138 .0052 .0014 .0012 .0002 .0002 .0014 .0008 .0014 .0008 .0040 .0030	.0150 .0086 .0160 .0198 .0180 .0134 .0104 .0130 .0034 .0236 .0298 .0474 .0262 .0162 .0178	0 Trace 0 0 0 0 0 0 0 0 0 Trace 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.15	1.3 1.9 1.6 2.2 1.5 1.9 1.3 1.2 1.8 2.7 2.7 2.6 1.5

BINGHAM-OWEN'S SPRING.

			Арржа	RANCE.		on l	IDUB EVAP- TION.	Axes	ONIA.		OGEN 15		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Pixed.	Free.	Albuminoid.	Nitrates.	Nitritos.	Chlorine.	Hardness.
8426 8869 9323 9635 9844 10423	Jan. 27, 1914 May 5, 1914 July 30, 1914 Nov. 17, 1914 Feb. 9, 1915 April 20, 1915 Aug. 3, 1915 Sept. 22, 1915	00000	0 0 0 0 0 0 0	0 0 0 0 0 0 Stight	000000000000000000000000000000000000000		4.7 3.5 4.4 4.8 4.0 3.6 4.6 3.0	.0002 .0014 .0008 .0004 .0008 .0018	.0022 .0042 .0014 .0018	0.02 0.02 0.025 0.02 0.02 0.02 0.02 0.02	Trace	0.14 0.16 0.16 0.18 0.16 0.09	2.7 2.8 3.1 4.5 3.8 2.7 3.5 4.8

BINGHAM—SMITH'S SPRING.

			Арри	ARANCE.		ON I	EVAP-		ONIA.	NITE	OGEN		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8424 8871 9322 9637	Sept. 22, 1914 Oct. 6, 1914 Oct. 6, 1915	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 Rust	Grassy 0 0 0 0 Slight 0 0 0 0	0 0 0 0 0.8 0 0 0 0.4 0	8.0 7.3 9.6 8.1 7.2 6.7 8.2 7.5 7.3 8.9	6.6 5.3 6.7 6.3 5.2 4.6 4.7 3.5 4.4 4.8 5.2	,0004 ,0012 ,0008 ,0006 ,0002 ,0006 ,0002 ,0008 ,0004 ,0010 ,0010	.0022 .0030 .0040 .0040 .0044 .0046 .0030 .0012 .0108 .0068 .0090	0.21 0.14 0.225 0.18 0.12 0.14 0.11 0.03 0.13 0.12 0.08	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.43	4.1 2.7 3.6 4.5 3.0 2.6 4.0 4.8 3.4 4.2 2.8

BOOTHBAY HARBOR.

			Арржа	ranc e.		ON I	IDITE EVAP- TION.	Ажн	ONIA.		MÉTIO:		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8396 8719 8802 9218 9581	Jan. 27, 1915 April 19, 1915 July 26, 1915	0.2 0.7 0.5 0.3 0.3	0 0 0 0 0	Veg. Veg. Stight Grassy ***********************************	2.6 1.5 1.4 1.1 1.3 1.2 2.1 2.7 2.2	5.4 3.4 5.0 3.1 4.3 4.5 3.7 4.6 3.8	3.4 2.6 3.0 2.2 3.3 2.6 2.1 2.0 1.7	.0008 .0046 .0012 .0014 .0010 .0072 .0020 .0004	.0120 .0126 .0142 .0162 .0110 .0164	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0.77 0.73 0.64 0.64 0.73 0.78 0.69 0.60 0.65	3.0 1.0 1.3 0.9 1.5 1.2 1.0 1.5

BREWER.

The supply of this city is still taken from the Penobscot River at Veazie, and without purification. The supply is one of the worst in the State, and is unfit for domestic use. Nothing came of the granting of a charter to the Brewer Water District, which, it was thought, would result in a pure water supply for this city.

At the present time the matter of correcting this supply is before the Public Utilities Commission on complaint of the users of the water that it is impure, and the Bangor Railway & Electric Company, the owners of the plant, admit this without contention. What order the Commission may make after the hearing is, of course, unknown but it will probably result in the abolition of one of the worse public water supply conditions in the State.

At no time during the past two years has this water been in safe condition to use for domestic purposes.

BREWER.

	intelography		:							<u></u>			
			Агта	BANCE.		ow 1	IDUE SVAP- TION.		ONTA.		OGENY -		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8311 8722 9107 9521	Jan. 18, 1915 April 5, 1915	000000	0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg.	5.1 3.6 3.3 2.7 4.0 7.2	6.6 4.2 5.2 5.9 7.8 4.6 4.8	2.9 2.4 2.2 2.7 3.5 1.7 1.6	.0012 .0012 .0014 .0020	.0100 .0160 .0112 .0126	0	0 0 0 0 0 0 Trace	0.20 0.09 0.10 0.11 0.12 0.14 0.09	2.0 1.3 2.4 1.5 2.5 1.3

Bridgton.

Up to June, 1915, samples came to us from this source at regular quarterly periods, but since this time we have been unable to obtain them from the local board of health. The last 1915 sample was furnished by the Maine Central Railroad Company. The water has been in good condition during the past two years. We hope to be able to make arrangements by which we may again obtain regular samples from this supply.

BRIDGTON.

			Арриа	RANCE.		ON E	DUE VAP-	Амм	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummod.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8403 8568 8819 8895 9371 9374	Jan. 20, 1914 April 30, 1914 June 6, 1914 July 22, 1914 Aug. 3, 1914 Dec. 5, 1914 Dec. 7, 1914 Feb. 16, 1915 June 6, 1915 Dec. 4, 1915	0.3 0.3 0.3 0 0.2	0000000000	Veg. Veg. Veg. Grassy Grassy Veg. Veg. Veg. Veg. Veg.	1.3 1.5 1.2 1.1 1.5 1.1 0.8 1.3 1.8	3.0 2.7 2.8 2.6 3.5 4.0 2.2	1.5 1.7 1.8 1.4 1.6 1.6 2.5 1.3	.0008 .0012 .0006 .0020 .0022 .0022 .0068	.0076 .0130 .0102 .0074 .0104 .0092	0 0 0 0 0 0 0 Trace	0 0 0 0 0 0 0 0	0.18 0a15 0.12 0.10 0.14 0.16 0.14 0.19 0.14	0.9 1.4 1.3 1.4 1.6 1.2 1.3 1.3

Brooks.

The only change in this supply during the past two years has been in the addition of a new well to the supply. The water from the new well was examined and found satisfactory, while the supply as a whole has maintained its good condition.

BROOKS.

			Арреа	RANCE.			DUB EVAP- TION.	Амм	ONIA.	Nitr A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8472 *8918 9606	Feb. 2, 1915 May 1, 1915 Aug. 2, 1915	0 0 0 0	0	0	0.3 0.2 0 0 0 0	6.0 9.2	4.6 5.2 7.6 3.9 3.7 4.1 3.6	.0002 0 .0008 .0010 .0010 .0002	.0008 .0022 .0078	0.04 0.06 0.018 9.04 0.06 0.07 0.05	0.003 0 0 0	0.35 0.42 0.58 0.35 0.35 0.44 0.37	2.0 2.7 4.9 2.2 2.7 3.0 2.1

^{*}New well,

BROWNVILLE-BRIGGS WATER SYSTEM.

			Apppal	RANCE.		RESI ON E	DUN VAP- PION,	Анм	DNIA.	Nite	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8499 9248 9648 9981 10494	Feb. 20, 1914 May 20, 1914 Nov. 2, 1914 Feb. 12, 1915 May 12, 1915 Aug. 13, 1915 Nov. 24, 1915	0 0	0 0 0 0 0 0	0	0 0 0.2 0.4	4.4 6.2 4.4 3.8 5.2	3.8 3.4 5.0 3.6 2.0 3.0 3.7	10	.0026 .0018 .0020 .0040 .0044 .0044	0.02 0.02 0.03 0.01 0.01 0.02 0.02	0	0.29 0.32 0.17 0.25	2.0 2.7 3.6 1.6 2.0 3.0 2.1

BROWNVILLE-BROWN SPRING WATER COMPANY.

			Appea	BANCE.			DUE VAP- TION.	Амис	ONIA.		OGEN IS		
Number.	 	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8497 9035 9298 9646 9927 10487	Feb. 18, 1914 May 19, 1914 Sept. 2, 1914 Nov. 11, 1914 Feb. 10, 1915 May 1, 1915 Aug. 12, 1915 Nov. 23, 1915	0 1.25 0 0 0 0	0 0 Rust 0 0 0	Veg. 0 0 0 0 0 0	0 0.1 1.0 0 0 0 0 0.2	3.8 2.8 5.4 4.4 4.3 3.0 3.3 3.7	3.3 2.1 3.8 3.7 3.4 2.0 1.7 2.2	.0006 .0002 .0005 0 .0004 .0008 0 .0002	.0020 .0036 .0022 .0020	0.03 0.03 0.02 0.02 0.02	0 0 0 0 0 0	0.10 0.08 0.09 0.12 0.10	1.5 1.4 2.8 3.6 2.0 1.5 2.1

BROWNVILLE-BROWNVILLE, MAINE, WATER COMPANY.

			Appra	RANCE.			DUE VAP- TION.	Амм	ONIA.	Nite A	OGEN B		
Number.	DATE OF COLLECTION	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8574 8989 9303 9645 9940 10463	Feb. 18, 1914 May 20, 1914 Aug. 18, 1914 Nov. 12, 1914 Feb. 11, 1915 May 4, 1915 Aug. 10, 1915 Nov. 23, 1915	0000	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0.1	4.2 5.0 5.6 4.6 3.8 6.4	3.5 3.0 3.2 4.9 3.7 2.5 4.3 3.4	.0010 .0002 0 0 .0006 .0002 .0006	.0018 .0018 .0012 .0034	0.01 0 0.02 0.02 Trace 0 0.017 Trace	0000	0.16 0.14 0.20 0.17 0.13 0.11 0.16 0.17	2.7 2.7 2.7 2.4 1.9 1.7 4.0 2.8

Brownville Junction.

While the regular source of supply for this village is obtained from springs yet, during the low water period of 1914, the supply ran so low that water was taken from Pleasant River to avoid water shortage. The river water was in safe condition at the time of the analyses, and the descriptions of conditions at the intake and above it, as given by the owners of the plant, indicate that the water is safe at this time. Changes in the plant are under consideration, and such increase in size as will make use of the river water necessary at times. I have advised the owners that the water should be filtered or sterilized by chlorine when the river is in use.

BROWNVILLE JUNCTION-BROWNVILLE & WILLIAMSBURG WATER COMPANY.

			APPE	ARANCE.		on I	EVAP-	Амме	ONIA.	NITE	OGEN S		
	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Traderes
8479 8523 8926 9312 4394 9622 9928 0028 0266 0444 0906	May 16, 1914 May 26, 1914 Aug. 8, 1914 Nov. 16, 1914 Dec. 8, 1914 Feb. 8, 1915	0 0 0 0 0.4 0 0.1 0 0.1 0 0.1	000000000000000000000000000000000000000	Veg. Slight Veg. 0 0 Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	1.7 1.6 1.6 1.2 1.8 1.7 1.1 3.7 3.1 9.0 1.6 1.8 1.7	5.0 4.1 4.0 3.3 4.5 6.3 5.3 5.9 5.5 4.3	3.3 2.8 2.6 1.7 2.3 4.1 4.2 3.0 2.2 2.6 2.9 3.2 2.2	.0014 .0024 .0012 .0006 .0004 .0008 .0012 .0014 .0014 .0002 .0004	.0064 .0050 .0052 .0100 .0060 .0122 .0076 .0078 .0088 .0190 .0102 .0064 .0060	0.05 0.03 0 0 0.08 0.03 0.04 0.04 0.04 0.05 0.02 0.02 0.015	0 0 0 0 0 0 0 0 0 Trace 0 0	0.31 0.21 0.21 0.04 0.15 0.38 0.25 0.13 0.14 0.25 0.16	2.0 2.3 1.6 3.6 3.6 3.6 2.6 2.5 1.7

^{*}River (Pleasant.)

BRUNSWICK & TOPSHAM WATER DISTRICT.

			Appra	RANCE.		P.ms: ON E	DUB VAP- MON.	Asne	ONIA.	Nitr A	OGRH S		
	n of Iction.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid,	Nitrates.	Nitrites.	Chlorine.	Hardness.
8445 May 1 8546 June 8834 July 8911: Aug. 9246 Nov. 9409 Dec. 1 9585 Feb. 9911: May 10061 June 10402 July 3	16, 1914 11, 1914 1, 1914 17, 1914 4, 1914 2, 1914 4, 1915 1, 1915 5, 1915 5, 1915 3, 1915 4, 1915	0000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 Slight 0 Slight 0	0 0.1 0 0.1 0 0 0.1 0 0 0.1	5.2 5.4 5.8 5.5 6.8 5.5 4.7 6.1	4.7 4.3 4.2 4.6 3.9 4.1 5.0 4.1 4.2 3.2 4.0 3.4	.0010 .0006 .0002 .0002 .0006 .0006 .0006 .0006 .0006 .0006	.0028 .0032 .0024 .0010 .0024 .0012 .0026 .0016 .0024	0.02 0.03 0.02 0.03 0.02 0.02 0.04 0.04 0.04 0.025 0.02	0 0 0 0001 Trace 0 0 0	0.50 0.43 0.40 0.40 0.39 0.42 0.42 0.48 0.49 0.45 0.53 0.45	2.7 2.1 2.8 2.7 3.0 2.5 2.2 1.8 2.7 1.3 2.8 1.8

BUCKFIELD.

	_		Аррва	BANCE.		ON I	DUB VAP- TION.	Asmi	DNIA.		OGEN S		
Number.	DATE OF COLLECTION. Jan. 26, 1914 April 27, 1914	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumhold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8374 8846 9236 9376 9586 9871 10151 10364	April 27, 1914 July 27, 1914 Oct. 28, 1914 Dec. 5, 1914 Feb. 1, 1915 April 26, 1915 June 19, 1915 July 26, 1915 Nov. 2, 1915	0 0 0 0 0.1 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Grassy Veg. Slight	0.9 0.6 1.0 0.2 0.9 1.3 1.3 0.3	3.1	2.6 1.6 1.6 1.4 1.3 1.4 1.1 1.1	.0008	.0118	0 0 0.15-0 Trace 0 0 0	0 0 0 0 0 0 0	0.12 0.13 0.15 0.15 0.16 0.11 0.12 0.11	1.3 1.3 1.5 1.5 1.2 1.5 1.2 1.1 1.0

BUCKSPORT.

Analyses of this water during the past two years have shown the water to be maintaining its safe condition. It still carries a very high color and vegetable content, so that its physical appearance is far from satisfactory. The use of a decolorization plant with this water would give a first-class drinking water in every respect, in place of one that was merely safe.

BUCKSPORT.

			Аград	RAWCH.		ON I	IDUB CVAP- TION.	Амж	ONIA.		OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid	Nitrates.	Nitrites.	Chlorine.	Hardness.
8373 8608 8761 9214 9450 9525 9828	Oct. 16, 1915	0.5 0.7 0.7 0.2 0.3 0.4 0.5 0.5	0 0 Veg. Veg. 0 0 0 Veg. Veg.	Veg. Veg. Veg. Veg. Grassy Grassy Grassy Veg. Veg. Veg.	6.9 5.3 5.0 4.7 5.0 3.6 4.7 7.5 9.0 9.0 7.0	6.6 4.4 4.7 5.2 4.5 6.3 9.0 4.4 5.7 5.9 6.6 5.4	3.2 2.6 2.4 2.9 3.0 3.7 2.0 2.6 2.2 1.5	.0042 .0028 .0028 .0068 .0028 .6014 .0020 .0026 .0042 .0048 .0048	0230 0162 0386 0268 0364 0302 0402 0298 0230 0266 0300 0282	Trace Trace 0 0 0 0 0 0 0 0 Trace Trace	000000000000000000000000000000000000000	0.55 0.37 0.34 0.33 0.45 0.22 0.40 0.44 0.30 0.30 0.48	4.0 1.6 1.0 2.3 1.5 2.4 2.2 1.6 1.2 2.2 1.2

CALAIS.

The regular source of supply for this city is from springs in Milltown, N. B. During the month of January, 1915, breaks in the line made this supply unavailable for Calais, and the Water Company pumped direct from the St. Croix River through their old intake. This water was polluted by the sewage of the town of Woodland, and was unsafe to use for drinking. The Water Company notified the users of the water of the condition, and the local board of health advised boiling the water. The laboratory watched the condition of the water after the spring supply was again turned on and mixed with the river water in the mains, and the advice to boil the water was kept in force until continued analyses showed no chemical or bacterial evidence of the presence of the river water in the supply.

Thanks to the precautions taken no trouble resulted from this temporary use of the river water; but it cannot be too strongly urged that the river connection of this Company be discontinued, and provision made for meeting emergencies in operation with a pure water. Double intakes, where one enters a polluted water, have often caused trouble, and should never be allowed.

CALAIS.

			Аррва	BANCE.			DUB VAP- FION-	Ампис	ONJA.		ogen s		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8459 8547 8852 9254 9391 9411 *9556 9600 9627	June 1, 1914 July 27, 1914 Nov. 2, 1914 Dec. 4, 1914 Dec. 12, 1914 Jan. 18, 1915 Feb. 1, 1915 Feb. 8, 1915 Feb. 8, 1915 May 20, 1915 June 14, 1915 Aug. 2, 1915	0.1 0.4 0 0 0.4 0 0 0 0 0	0 0 0	Veg. 0 0 0 Slight Veg. Veg. Slight Slight Veg. Slight	0.5	3.5 3.5 3.7 4.2 3.7 7.5 4.2 7.0 4.2 4.0 3.8 4.3	2.3 2.25 2.50 3.10 2.65 2.37 3.50 2.88 2.80	.0008 .0002 .0002 .0005 .0012 .0012 .0018 .0006 .0014 .0008 .0006 .0006 .0006	.0060 .0028 .0047 .0046 .0122 .0060 .0170 .0056 .0052 .0058 .0046 .0054	0.02 0.02 0.02 0.02 Trace 0.03 Trace 0.02 0.01 0.02 Trace 0.01 0.03	0 0 0 Trace 0 0 Trace	0.26 0.20 0.21 0.19 0.18 0.23 0.23 0.21 0.25 0.26 0.27 0.22 0.19 0.14	1.7 1.3 1.4 2.4 1.5 1.5 1.5 1.5 1.5 1.2 1.5 1.2 1.4

*St. Croix River.

CAMDEN.

			Appra	RANCE.		on I	DUE VAP- TION.	Амм	ONIA.	Nite A	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8369 8566 8657 8760 9219 9413 9464 9539 9851	Jan. 17, 1914 April 27, 1914 June 5, 1914 June 24, 1914 July 13, 1914 Oct. 26, 1914 Dec. 24, 1914 Jan. 18, 1915 April 20, 1915 June 12, 1915	0.4 0.5 0 0 0.2	0 0 0 Veg. 0	Veg. Grassy 0 Slight 0 Veg. Veg. Veg. Fishy Grassy	0.1 0.2 0.2 1.2 0.3 0.2 0.7 1.3	2.7 2.4 2.8 3.1 3.0 4.0 2.9 3.6 2.7	1.8 1.9 1.6 2.1 1.7 2.3 1.8 2.6 2.4 1.7	.0014 .0004 .0008 .0006 .0008 .0002 .0030 .0002 .0054 .0012	.0058 .0060 .0064 .0084 .0122 .0052 .0082 .0156	0 0 0 Trace 0 0 0 0	0 Trace 0 0 0 0 0 0 0	0.44 0.41 0.40 0.39 0.41 0.53 0.48 0.59 0.43	0.8 1.2 1.0 1.3 0.9 1.0 1.5 0.9 1.0 0.9

CAMDEN & ROCKLAND WATER COMPANY.

			APPRA	RANCE.		OH I	IDUB SVAP- TION.	Asne	OMIA.		SOCIEN S		
Number.	DAYS OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitrates	Niteritos.	Chlorine.	Hardness.
10161 10747 11006 11061	Dec. 6, 1915	0 0.2 0	0 0 Rust 0 0	Slight 0 Slight Slight Slight	0.8 6.2 0.8	1.7 2.3 2.8	1.5 0.5 0.6 1.4 1.2	.0002 .0008 .0016	.0054 .0058 0108 .0132 .0070	O O Trace O O	0	0.37 0.36 0.49	1.0 1.2 1.0 1.2 0.8

CARIBOU.

The water supply of this town still comes from the Aroostook River. This supply is grossly polluted. The amount of the sewage pollution has steadily grown since this water came under observation. The main source of trouble is from the sewage of Presque Isle, which is not over 15 miles away by river. Both the water company and the board of health know the conditions, but this office has heard of no steps being taken by either party, looking to the correction of the existing condition. The best chance for the cleaning up of this matter lies in an appeal to the Public Utilities Commission.

Only the fortunate absence of infectious disease from the communities, which sewage into the upper river, has prevented this supply from causing serious trouble. It is one of the poorest supplies in the State. Immediate steps, looking to purification of the present supply, or to obtaining a new and unpolluted source of supply, are imperative.

CARIBOU.

-			Арриа	RANCE.		ON E	IDUE VAP- TION	Ancie	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8321 8729 9176 9510 9800 10292	Jan. 12, 1914 April 13, 1914 July 6, 1914 Oct. 19, 1914 Jan. 11, 1915 April 12, 1915 July 12, 1915 Oct. 11, 1915	0.2 7.0 0.3 3.2 0.3	Rust 0 0 Clay 0	Veg. Veg. Veg. Veg. Moldy Veg. Veg.	3.1 6.5 2.0 1.6 3.0 14.0	7.3 6.2 7.8 7.3 6.2	5.1 4.3 3.4 3.4 5.2 3.5 1.9 3.1	.0012 .0012 .0114 .0014 .0036 .0012	.0080 .0164 .0160 .0148 .0098 .0274 .0312 .0224	Trace 0.02 0 0 0.03 Trace 0 0	0 0 0 0 Trace	0.21 0.07	4.0 2.6 2.7 3.3 4.8 2.7 2.0 2.7

CASTINE.

			APPRA	RANCE.		ON I	IDUM VAP- TION.		ONIA.	Nite A	ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8442 8884 9245 9592 9876 10507	Feb. 2, 1914 May 11, 1914 Aug. 1, 1914 Nov. 2, 1914 Feb. 1, 1915 April 26, 1915 Aug. 16, 1915 Nov. 18, 1915	0 0 0 0 0.3	0	Veg. Slight 0 Slight	0.1 0.9 0.3 0 0.1 0.8 1.7	8.4 4.4 6.0 6.5 9.7 7.3 8.3	6.8 3.6 4.4 4.8 7.2 4.8 5.5 5.5	.0008 .0012 .0006 .0022 .0012 .0008 .0026	.0122 .0056 .0032 .0036 .0112	0 0.02 0 0 0.11 0.09 0.02 0.39	0	1.00 0.58 0.75 0.75 0.78 0.68 0.82 0.79	3.8 2.4 2.9 3.0 6.0 3.5 4.5 3.0

CHERRYFIELD.

We have been unable to obtain samples from the supplies of this town from the local health officer, and so can report no analyses from the two supplies of this town.

DA MARISCOTTA.

			Аррва	Bancs.		ON I	DUB CVAP- TION.	Axor	OMIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8384 8710 8801 9212 9421 9558	July 26, 1915 Oct. 18, 1915	0.4 0 0 0 0.3 0.2 0.2 0 0	0000000	Veg. Veg. Slight Grassy Veg. Grassy Grassy Veg.	1.5 0.9 0.9 1.2 1.4 1.6 2.1 1.6 1.7	3.0 3.9 2.9 3.3 3.5 6.6 2.9 3.4 3.0 3.1	2.0 1.9 2.4 1.8 1.3 2.0 2.8 1.3 1.1 1.5 1.2	0006 0006 0012 0008 0014 0020 0018 0014 0006	0148 0096 0164 0140 0126 0140 0126 0124 0162 0162 0162	000000000000000000000000000000000000000	0 0 0.0002 0 0 0	0.36 0.41 9.43 0.41 0.42 0.44 0.41 0.42 0.40	1.2 0.8 0.8 1.0 0.9 1.5 1.5 1.3 1.3 0.8

DANFORTH.

This town is regularly supplied with a ground water from a large well, the water being of good quality. The system has a double intake, one into the well, and the other into Baskehegan Stream. The latter is used in case of excessive draught on the system during fires, and during breaks in the well pipe line. Use of the water from the stream was made the last of May, 1914, on account of a large fire, and during the middle of November, 1915, on account of breakdown of the pumps at the well.

Examination of the water at both of the above periods showed it to be essentially a surface water, and to be free from evidences of pollution. I understand that the stream intake is located in the mill pond. This is an undesirable location, both on account of the possibility of pollution of the water from the men on the logs, and from polluted surface wash from the neighboring building entering the supply. If it is necessary to maintain this stream connection the intake should be carried up the stream well above the houses and the booms.

While the water from the stream has been in safe condition at the times it has been of necessity used, yet it possesses the usual opportunities for pollution of running water, and so its use is to be advised against on general principles. This is another case where a double intake offers opportunity for trouble with a water supply. The safe thing to do is to develop the ground water supply to meet all demands, even though the stream water has not as yet, shown evidence of pollution.

DANFORTH.

			APPEA	RANCE.		ON I	IDGE CVAP- PION.	Амм	ONIA:		ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor:	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8480 8505 8891 9274 9639 9924 10505	Peb. 17, 1914 May 18, 1914 May 22, 1914 Aug. 3, 1914 Nov. 9, 1915 Feb. 9, 1915 May 3, 1915 Aug. 16, 1915 *Nov.13, 1915	0.4 0.2 0 0 0 0 0.2	0	Veg. Slight Slight O Veg. Moldy	0.9 0.1 3.3 0.3 0.3 0 1.3 0.2 1.8	8.1 5.5 13.7	3.0 11.8 10.5 9.6 4.4 7.6	.0006 .0050 .0008 .0002 .0006 .0004	.0156 .0068 .0032 .0028 .0070 .0014	0.12 0.05 Trace 0.070 0.09 0.09 0.06 0.08 0.02	0 0 0 0.0002	0.53 0.35 0.15 0.60 0.47 0.43 0.32 0.40 0.36	9.6 6.5 2.7 10.2 9.0 6.9 4.0 9.0 5.7

^{*} Stream.

DEXTER.

			Аррел	RANCE.		ON 1	IDUE EVAP- TION.	Axor	ONIA.		ogen B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminold,	Nitrates.	Nitrites.	Chlorine.	Hardness.
8337 8808 9319 9462 9542 9802 10180 10288 10852	Jan. 12, 1914 April 20, 1914 July 20, 1914 Nov. 17, 1914 Dec. 22, 1914 Jan. 18, 1915 April 10, 1915 June 22, 1915 July 13, 1915 Nov. 5, 1915 Dec. 20, 1915	00000000	000000000000000000000000000000000000000	Veg. Veg. Slight Grassy Slight 0 Veg. Veg. Slight Veg. Veg.	0.4 0.4 0.2 0.2 1.3 1.1 1.4	4.1 5.7 4.9 4.4 4.2 4.3 3.9 4.1	2.9 3.0 2.7 4.5 3.5 2.8 3.0 2.6 2.0 2.2	.0012 .0014 .0020 .0008 .0002	.0086 .0116 .0110 .0116 .0102 .0082 .0102	0 0.013 0 0 0 0 0 0 Trace	.0 0	0.19 0.20 0.17 0.22 0.27 0.22 0.20 0.20 0.22 0.23	1.2 2.6 2.6 3.0 2.5 2.7 2.1 2.0 2.3 2.5 2.0

DIAMOND ISLAND.

	67 July 13, 1914 34 Aug. 31, 1914		Арры	lrance.		ON I	IDUE EVAP- TION.		ONIA.	NITE	ogæn S		
Number.		Turbidity.	Sediment.	Odar.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9034 10174	July 13, 1914 Aug. 31, 1914 June 21, 1915 Sept. 13, 1915	0	0 0 0 Slight	0 0 0	0	14.0 15.2 17.0 17.6	9.7 10.1	.0010	.0028	0.015 0.045 0.04 0.022	0 0 0 0,0001	3.65	4.0 6.4 6.8 9.21

DIXFIELD.

This supply has been taken from an impounded brook, as in the past years, save during the summer of 1914 when the dry weather necessitated the use of water from a pond with the brook supply. This water has shown its usual fluctuations in color and vegetable content during the past two years, and, at times, the color has been so high that it is surprising that no complaint has been made relative to the appearance of this water.

Lumbering operations were in progress during the winter of 1914, as during the previous year, and warning of the possibilities of pollution of the water from unsanitary conditions about the camps on the feeder brooks of this system was given the local board of health. Fortunately no trouble arose from the use of the water after the spring rains.

It cannot be too strongly urged that the local boards of health exercise strict control over the sanitary arrangements of any lumber camps on the tributaries of their public water supplies. My experience has shown practically no attention on the part of the operators to disposal of the fecal matters where they cannot be reached by surface wash during the spring rains. This carelessness in disposal of such wastes, coupled with the common appearance of intestinal disorders among the men in such camps, constitutes a very real danger to the public water supply on whose watershed a lumbering operation is in progress.

DIXFIELD.

			Арре	ARANCE.		on 1	IDUE EVAP- TION.	Амм	ONIA.		OGEN	H	000
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8236 8367 8768 9175 9513	July 5, 1915	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	3.4 2.8 13.0 7.0 8.0 7.3 3.2 13.0	5.5 6.0 4.1 5.0	3.1 2.3 2.0 2.7 3.0 3.4 2.0 2.9 2.4 3.7	.0012 .0006 .0012 .0006	.0074 .0280 .0134	Trace Trace 0 0 Trace 0 0 0 0	Trace 0 0 0 0 0 0 0 0	0.15 0.11 0.09 0.06 0.14 0.19 0.09 0.10 0.03 0.09	2.0 1.3 1.6 1.7 1.8 1.5 1.3 2.0 2.0 1.7

DOVER AND FOXCROFT.

These towns still take their water supply from the Piscataquis River, within eight miles of the outfall of the Sangerville sewers. The water is grossly polluted, as it has been for years past. In spite of continued agitation there has been no change in this supply, although several possible sources have been investigated, and legislative permission obtained in 1915 for the use of water from two new sources.

This water supply is not safe to use for drinking purposes, and constitutes another of our badly polluted supplies from our large rivers.

DOVER AND FOXCROFT WATER DISTRICT.

	10		Appe	ARANCE.		on 1	IDUE EVAP- TION	Амм	ONIA.		OGEN		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites,	Chlorine.	Handman
8273 8413 8557 8736 8987 9020 9110 9280 9492 9628 9672 9772 10067 10432 10695	Feb. 2, 1914 Mar. 2, 1914 Mar. 30, 1914 May 4, 1914 June 2, 1914 July 7, 1914 Aug. 18, 1914 Aug. 31, 1914	0 0.2 0 0.2 0 0.2 0 0.3 0 0.2 0 0.1 0 0.2 0 0.3 0 0.2 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	3.2 3.1 2.1 2.2 5.2 2.8 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	4.9 5.3 5.1 4.0 3.5 4.2 3.9 3.3 6.3 3.5 4.5 4.3 5.5 4.3 5.5 4.3 6.3 3.5 4.3 6.3 4.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6	2.6 2.7 2.7 2.1 2.1 2.1 2.1 2.2 0 1.7 2.2 3.4 4.3 3.3 2.8 2.6 2.5 5.1 1.6 2.6 1.6 2.6 1.6 2.6 1.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2	.0014 .0020 .0012 .0008 .0014 .0012 .0006 .0012 .0006 .0014 .0006 .0006 .0012 .0014 .0006 .0012 .0014 .0006 .0012 .0014 .0006 .0012 .0012 .0012 .0012 .0012 .0012 .0012 .0013 .0014 .0016		0 0 Trace 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0.16 0.13 0.17 0.11 0.04 0.12 0.12 0.12 0.13 0.18 0.16 0.14 0.11 0.07 0.09 0.10 0.06 0.12 0.12	1.2 1.3 1.7 1.2 1.6 1.4 2.3 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8

EAST MILLINOCKET.

Up to the end of the year 1915 this town has continued its use of water from its drilled wells; the water being in first-class condition for drinking, although a little hard for industrial uses.

It is now contemplated to increase the quantity of water in this supply by an intake in the East Branch of the Penobscot River. If this is done it will be unfortunate. At the present time the East Branch flows through wild lands for practically all of its distance. However the town of Grindstone is located on it, and at too close a distance to East Millinocket to give continued assurance of the safety of the river water at the latter point. At this time there is no sewage system at Grindstone, but the surface drainage of the village enters the river.

In addition to this the East Branch is used for log driving purposes up to the middle of the summer. The habits of the drivers, as to disposal of excreta and urine, are far from conducive to maintaining the purity of the water during the log driving season.

These two considerations, coupled with the fact that there will be increase in the population on the river above East Millinocket, has led me to advise the local health authorities to protest against the use of the river water in augmenting the supply of the water company. It will introduce possibilities of pollution of the water supply, and will, even in the absence of such pollution, result in the use of a water with all of the wide fluctuations in physical condition characteristic of a rapid flowing river.

EAST MILLINOCKET.

			Аррва	rance.		RESI ON E	DUE VAP- FION.	Амм	ONIA.	Nitr A	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8890 9267 9610 9914	Feb. 3, 1914 Aug. 3, 1914 Nov. 5, 1914 Feb. 3, 1915 April 27, 1915 Nov. 27, 1915	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	11.2 11.0 10.7 10.0 10.7 12.4	7.1	.0002 .0002 .0006	.0022 .0014 .0020 .0012 .0020 .0018	0 0 0 0.01 0.02 0.02	0.0007 .0004 0	0.17 0.21 0.30	5.5 8.4 8.3 6.3 6.1 7.0

EASTPORT.

The supply of this city remains as in the past from Boyden Lake. It was noted in my last report that this water had been acquiring a considerable turbidity during 1912-1913. This condition has continued, and has increased during the past two years. At times the degree of turbidity has been such as to unfit the water for drinking on account of its roily appearance.

In addition there has been considerable chemical evidence of surface wash entering the pond, close enough to the intake to reach out over it. While I have been unable to obtain any actual knowledge of the conditions about the lake, owing to the lack of inspection, yet all of the evidence of the past four years points to improper location of the intake of this supply. Such being the case the correction of the trouble should be easily made.

It is full time that something is done to correct the appearance of this water. If the assumption is correct that land wash can flow over the intake, then there enters the possibility of serious pollution of the water.

We are informed that there are a great many cottages about this lake, and that there are no restrictions on the owners, either as to use of the lake or as to disposal of the wastes of the cottages. Coupling this condition with the fact that the water of the water company is taken from a point within the reach of surface wash from the shores, and we have a serious condition, which is sure to lead to future trouble.

At the present time this water is in very unsatisfactory condition. The experience of the past four years points to an increase in this condition, rather than to a decrease, with resulting possibilities for actual pollution of the water of this supply.

EASTPORT.

			Арреа	RANCE.		ON I	IDUE EVAP- TION	Азок	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8340 8564 8764 9188 9438 9522 9813 10138 10346 10771	Dec. 16, 1914 Jan. 18, 1915 April 13, 1915 June 16, 1915 July 20, 1915	0.8 7.6 0.4 1.3 10.5 0.7 2.5 2.1 1.0 0.7	Veg. Clay Clay Earthy Clay Earthy Earthy Clay and	Veg. Veg. Veg. Veg. Veg. Veg. O Veg. Veg.	3.0 1.4 4.6 3.2 3.0	3.6 5.3 3.1 5.0 8.8 4.9 6.7 8.3 3.9	4.0 2.1 3.6 1.7 3.6 6.7 3.2 3.5 5.5 1.5 2.9	.0014 .0024 .0006 .0012 .0056 .0012 .0008	.0118 .0152 .0142 .0148 .0198 .0156 .0280 .0166 .0178 .0150	0 0 0 0 Trace Trace 0 Trace 0 Trace	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.61 0.38 0.39 0.39 0.49 0.77 0.50 0.55 0.36 0.37 0.40	1.5 1.4 1.4 1.2 2.2 1.5 2.4 2.7 1.3 1.7

ELLSWORTH.

			Appe	ARANCE.		ON E	VAP-	Аммо	ONIA.	NITR			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8308 8587 8751 9133 9181 9390 9491 9771 10065	Oct. 10, 1914 Oct. 19, 1914 Dec. 7, 1914 Jan. 9, 1915 April 5, 1915 June 5, 1915 July 7, 1915 Oct. 6, 1915	0.1 0 0 0 3 0 0 0 2 0.3 0 0.2 0 0.3	0 0 0 0 0 0 0 0	Veg. Veg. 0 Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	1.9 2.0 1.5 1.3 1.1 0.7 2.2 1.9 2.1 2.3 5.0 1.8 2.1	2.9 2.7 2.8 3.9 2.8 2.8 3.6 2.5 2.2 3.1 3.3 2.9	1.8 1.4 1.8 1.5 1.8 2.3 1.9 1.8 1.0 1.0 1.0	.0016 .0016 .0006 .0004 .0008 .0008 .0012 .0012 .0012 .0006 .0006 .0004	.0108 .0122 .0064 .0108 .0074 .0118 .0124 .0092 .0106 .0100 .0126 .0142 .0144	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.27 0.27 0.25 0.21 0.26 0.27 0.35 0.35 0.35 0.27 0.26 0.27	1.1 1.0 0.9 0.4 1.5 1.2 1.3 1.0 0.9 1.0 0.7 0.7

FARMINGTON.

The source of supply for this town remains, as in the past, from Varnum Pond, in the town of Temple. During the past two years there has been an extension in the capacity of the supply through the laying of an extra main from the pond. The water has remained in first-class condition.

During the past year the local health authorities asked my opinion as to the advisability of prohibiting all swimming in

the pond. There had been little of this in the past, but it had been on the increase during the last summer, and there was fear of possible pollution of the supply from this source. I advised prohibition of swimming in the pond. This matter is really more the concern of the town of Wilton as the swimming is done mostly at the lower end of the lake, where the intake of the Wilton Water Company is located.

FAR MINGTON.

			Аррва	RANCE.		ON E	DUE VAP- TION	Амм	ONIA.		OGEN .8		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8582 8912 9269 9387 9575 9902 10006 10083 10392 10843		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slight Slight Grassy Slight 0 Grassy 0 Slight Slight 0 0 0 2 Slight	0.4 0.2 0.2 0.2 0.1 0.4 0.2 1.1 0.2 0.3 Sigt		3.5 2.7 2.2 2.4 2.6 4.0 3.2 2.3 1.7 1.5 2.0 1.2	.0008 .0020 .0008 .0012 .0004 .0006 .0014 .0008 .0010 .0008 .0006 .0006	.0068 .0062 .0068 .0104 .0070 .0082 .0040	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.15 0.11 0.05 0.10 0.08 0.11 0.12 0.10 0.13 0.10 0.15 0.05	1.7 2.1 1.9 2.6 2.5 1.5 2.1 1.8 1.2 1.5

FAR MINGTON FALLS.

			Appea	RANCE.		on I	IDUE EVAP- TION.	Аммо	ONIA.	NITE	OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Flxed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8485 8894 9286 9802 9966 10427	Feb. 16, 1914 May 18, 1914 Aug. 3, 1914 Nov. 9, 1914 Feb. 1, 1915 May 10, 1915 Aug. 4, 1915 Nov. 16, 1915	0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0	4.2 3.6 4.6 5.4 3.3 3.5 4.8	3.3 2.9 3.6 4.6 2.9 2.3 3.7 2.8	.0006 .0004 .0002 .0002 .0008 .0008	.0018 0020 .0018 .0012 .0048		O O Trace O O O Trace		2.7 2.6 3.2 3.4 1.9 1.9 3.5 2.8

FORT FAIRFIELD.

			APPEA	RANCE.			DUB VAP- PION.	Ами	ONIA.		OGRA B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8483 9000 9314 9625 9930 10469	March 2, 1914 May 16, 1914 Aug. 22, 1914 Nov. 14, 1914 Feb. 6, 1915 May 1, 1915 Aug. 10, 1915 Nov. 13, 1915	00000	0 0 0 0 0	0 0 0 0 0 0 0 0 0		15.1 17.7 15.9 13.5 16.2	11.3 13.7	.0010 .0006 .0048 .0002	.0018 .0050 .0042 .0034 .0018 .0030	0.07 0.05 0.02 0.02 0.05 0.04 0.03	Trace 0 0	0.18 0.19	12,9 11.0 16.3 14.3 10.1 9.5 17.0 12.5

FORT KENT.

Up to this time we have been unable to obtain samples of the water supply of this town from the water company or from the local health officer. However the trains of the Bangor & Aroostook Railway Company take drinking water at this point, and so we obtain semi-annual samples from this supply through their agent.

The only information which we have been able to gain, relative to the source of this supply, is that it is from a spring fed brook, located about two miles from the village. The water, as represented by the samples we have received, has been typical of water from such a source; showing an increase in color and vegetable content and a fall in mineral content during the wet seasons, and a fall in color and vegetable content and a rise in mineral content during the dry seasons.

The water has been in satisfactory condition to use for drinking as represented by the samples we have received from the Railway Company.

FORT KENT.

			Аррва	RANCE.		ON I	IDUM VAP- TION.	Ами	ONIA.		ogen B		
Number. 173 3	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor	Color.	Total.	Fixed.	Free.	Albuminold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
	June 30, 1914 Dec. 8, 1914 June 2, 1915	0.1	0 0 0 0	Veg. Veg. 0 Veg. Veg.	1.6 1.8 3.3	5.5 4.9 4.3	4.0 3.4 2.8 1.8 2.8	.0008 .0012 .0012 .0014 .0008	.0098 .0090 .0082	Trace 0 0.04 Trace 0.03	0	0.03 0.21 0.07	3.1 2.4 3.0 1.5 2.8

FREEPORT.

			APPEA	RANCE.		ON I	IDUE EVAP- TION	Амм	ONIA.		ogen 8		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8791 9199 9520	April 13, 1914 July 13, 1914 Oct. 20, 1914 Jan. 15, 1915 April 7, 1915 July 20, 1915	0.8 0.2 0 1.9 0.8	0 0 0	Veg. Grassy Veg. Veg. Slight Veg. Veg.	1.0 1.3 1.4 1.4 2.7 3.5	4.6 6.8 7.2 7.7 6.6 6 6	4.8 2.9 4.2 5.5 5.5 5.1 3.8 4.9	.0018 .0014 .0018 .0008 .0012 .0018 .0010	.0090 .0086 .0064 .0104 .0090 .0182	0.050 Trace 0.065 0.068 0.065 0.04 0.02 0.05	0 0 0 0 0	0.64 0.42 0.50 0.69 0.66 0.51 0.42 0.67	2.7 1.1 2.5 3.3 3.0 2.1 1.6 2.8

FRIENDSHIP.

			Аррва	RANCE.		RESI ON E		Ажи	ONIA.		OGEN 8		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8441 8972 9161 4302 9613 9967 10491	Feb. 1, 1914 May 11, 1914 Aug. 16, 1914 Oct. 12, 1914 Nov. 10, 1915 Feb. 1, 1915 May 4, 1915 Aug. 10, 1915 Nov. 15, 1915	0 0 0 0.2 0.1	0 0 0 0 0 0 0	Veg. Veg. 0 Slight Veg. Slight	0.6 0 0.2 0.3 1.1	11.4 9.0 6.9 7.2 5.6 10.3 7.7 13.9 9.9	6.8 4.5 5.4 4.6 8.4 5.0 6.3	.0070 .0050 .0034 .0014 .0006 .0158 .0020 .0056 .0030	.0050 .0062 .0078 .0064 .0064 .0074 .0058	9.38 0.34 0.09 0.06 0.06 0.44 0.24 0.05 0.37	0 0 0 Trace 0,0003	1.15 1.05 1.71 1.45	2.7 2.7 1.7 1.8 3.0 3.7 2.7 4.0 3.1

FRYEBURG.

			Аррва	BANCE.			DUB VAP-	Ами	ONIA.	Nitr			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8379 8600 9215 9443 9543 9837 10167	Jan. 19, 1914 April 28, 1914 June 13, 1914 Oct. 26, 1914 Jan. 19, 1915 June 21, 1915 July 19, 1915 Oct. 26, 1915 Dec. 19, 1915	00000000	000000000000000000000000000000000000000	O Slight O O Slight O Slight	0 0.9 0.1 1.0 0 0.5 1.1 1.1 1.0 0.5	2.6 2.4 2.6 3.5 3.3 2.0 2.8 2.2 2.7 1.2	2.1 1.6 1.8 3.0 2.8 1.3 1.1 1.5 1.2	.0006 .0006 .0004 .0008 .0004 .0008 .0002 .0006 .0002	.0028 .0040 .0048 .0040 .0048 .0068 .0038	Ō	0 0 0 0 0 0 0	0.15 0.09 0.07 0.08 0.08 0.07 0.11 0.10 0.03 0.07 0.06	0.9 1.2 1.0 1.0 1.1 1.0 0.8 1.2 0.8

GARDINER.

The source of this supply is still Cobbosseecontee Stream, and no change has been made in the location of the intake. During the two years, covered by this report, the water district and the public have been warned of the danger of pollution of the water by owners of motor boats, and by contaminated surface wash. The water district has paid all possible attention to the maintenance of sanitary conditions about the cottages and houses on the watershed. In spite of this B. Coli appeared in the water in two instances during 1915.

The possibilities of danger from this supply had been recognized by the trustees of the water district, and they had recommended filtration of the water to the city in their 1913 report. At the present time the water district is installing slow sand filters near the intake to purify this water. These filters should be ready for operation early in the spring of 1916, and should yield a safe and satisfactory water. It would appear that the filters were installed none too early, and the public spirit of the trustees of the water district is to be commended in starting such an expensive work without the incentive of an epidemic of water-borne disease behind them. Their action will undoubtedly prevent occurrence of any such trouble.

GARDINER.

			Арриа	HANCE.		ON I	EVAP-	Amm	ONIA.		OGEN:		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8342 8579 8733 9151 9423 9530 9803 9987 10062	Dec. 15, 1914 Jan. 18, 1915 April 12, 1915	0.1 0.2 0.2 0.2 0.3 1.0 0.9 0.5 0.3	0 0 0 0 0 0 0 Clay	Veg. Veg. Veg. Grassy Veg. Moldy Grassy Veg. Veg. Veg. Veg.	1.6 1.5 1.6 1.3 1.3 1.4 1.3 2.0 2.6 2.1 2.9 2.4	5.8 3.8 4.2 4.2 4.1 4.7 4.7 3.9 4.6 4.3 3.8 3.6	3.9 2.2 2.3 2.3 2.5 3.1 3.2 2.7 2.7 2.7 2.1 1.5	.0008 .0048 .0016 .0010 .0014 .0014 .0026 .0028 .0022 .0018 .0014	0122 0156 0138 0126 0116 0144 0166 0116 0156 0158	0 0 Trace Trace 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 33 0 22 0 22 0 20 0 25 0 30 0 50 0 29 0 28 0 27 0 24 0 25	1.2 1.3 1.3 2.3 2.7 1.5 2.7 1.6 1.6 1.5 1.9
10270 10736 10795 10864 11021	Oct. 18, 1915 Oct. 26, 1915 Nov. 8, 1915	1.0 0.2 0.4 0.3 0.3	0	Veg. Veg. Veg. Veg. Veg.	2.7 1.5 1.8 1.6 2.0	5.0 4.5 4.4 3.5 4.1	2.2 2.6 2.6 2.0 2.0	.0006 .0024 .0026 .0008 .0012	.0258 .0162 .0104	Trace Trace Trace Trace	0 0.0001 0 Trace 0	0.20 0.26 0.22 0.26 0.28	1.8 1.6 1.4 2.0 1.4

GORHAM.

			Аррва	RANCE.		ON E	IDUE EVAP- TION.	Аж	ONIA.		ogen B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8395 8826 9197 9553		0 0 0 0 0	0 0 0 0 0	Veg. Woody 0 Slight Slight Slight Veg. Slight	0.9 0.3 0.3 1.0 1.7	2.7 2.1 2.0 2.7 2.2 1.9	1.7 1.6 1.5 1.3 1.4 0.8 0.9	.0010 .0002 .0014 .0006 .0008 .0006 .0012	0078 0076 0060 0076 0058	Trace Trace Trace Trace O Trace Trace Trace Trace	0.0001 0 0 0	0.17 0.21 0.18 0.20	1.1 1.0 1.2 1.4 1.2 0.6 1.2

GUILFORD.

			Арриа	RANCE.		ON I	idub Evap- tion,		ONIA.		ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8385 9073 9200 9549 9815 10343	Jan. 20, 1914 April 28, 1914 Sept. 16, 1914 Oct. 22, 1914 Jan. 20, 1915 April 14, 1915 July 20, 1915 Nov. 1, 1915	0 0.1 0 0 0.3	Veg. 0 0 0 0 0		0.9	6.0 6.0 6.0 5.7	4.4 4.7 3.3 4.3 4.5 3.9 2.9 3.0	.0030 .0010 .0022 .0126 .0154 .0008	.0158	0 Trace 0 0 0 0 0 0	0 0 0 0 0 0 0	0.17 0.15 0.12 0.12 0.14 0.12 0.12 0.12	4.1 4.0 3.2 1.8 5.0 4.1 3.4 4.0

HALLOWELL.

The source of supply for this city remains the same as in the past. The analyses of the past two years have shown the water in much poorer physical condition than in the past. The degree of turbidity has been higher and more persistent than before, and there has been greater evidence of surface wash finding its way into the system without much sedimentation in the impounding reservoir.

This supply is in such condition that the best of care needs to be given to the sanitary conditions about the reservoir. Any pollution of the surrounding surface of the ground will evidently find its way almost at once into the distribution system.

This water has not been in a satisfactory condition during the past two years, although it has remained safe to drink. The water company should look into the matter of improving this supply at once, as, if the amount of deterioration in physical condition for the past two years continues the water will soon become physically unfit to drink, even though the actual pollution of the water by sewage wastes be absent.

HALLOWELL.

			Appra	RANCB.		RESI ON E		Амис	MIA.	Nitr A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8349 8598 8772 9063 9155 9406 9540	Aug. 3, 1915 Oct. 19, 1915	1.3 2.2 0.4 0.8 0.2 2.5 1.7 2.0 1.2 0.2 0.2	Clay Clay Veg. Veg. 0 Clay Clay Clay Earthy	Veg. Grassy Veg. Veg. Grassy Grassy Moldy Veg. Veg. Veg. Veg.	1.6 1.4 1.7 1.7 5.0 1.4 3.0 2.8 3.8 3.6 2.4	6.6 4.0 5.6 6.3 10.2 10.2 6.6 4.9 5.3 6.0	3.4 6.8 2.8 4.1 2.3 2.5 3.3	.0034 .0014 .0012 .0020	0156 0186 0192 0200 0176 0182 0322 0216 0254 0190	0 0 0 0 0 0 0.01 Trace Trace 0 0	0 0 0 0 0 0 0 0 0 0 0 Trace	0.40 0.27 0.23 0.22 0.32 0.37 0.48 0.18 0.35 0.27 0.34 0.42 0.56	1.5 1.3 2.7 2.1 3.0 1.3 3.7 1.2 1.6 1.9 2.4 2.7 2.8

HARRINGTON.

			Appba	RANCB.		RESTON E		Амм	ONIA.	Nite A	ogen B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminod	Nitrates.	Nitrites.	Chlorine.	Hardness.
8874 9252 9614 9866 10522	Feb. 5, 1914 May 12, 1914 July 27, 1914 Nov. 1, 1914 Feb. 3, 1915 April 24, 1915 Aug. 18, 1915 Nov. 6, 1915	0 0 0 0 0 0.2	0 0 0 0 0 0	0 0 0 0 0 0 Veg.	0 0 0 0 0 0 0.2	7.1 6.8 7.2 7.8 6.0 6.9 7.4 7.0	5.5 6.0 5.6 6.7 5.6 4.7 4.7	.0008 .0002	.0024 .0012 .0010 .0010	0.07 0.07 0.06	0 0 Trace 0 0 0	0.68 0.67 0.67 0.71 0.71 0.70 0.68 0.75	2.7 4.0 3.1 4.8 3.7 3.4 3.7 2.6

HARTLAND.

			Аррва	RANCE.		on I	DUE VAP- TION.	Амис	ONIA.	NITE	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8420 8856 9266 9626 9895 10422	Feb. 4, 1914 May 5, 1914 July 25, 1914 Nov. 5, 1914 Feb. 8, 1915 April 28, 1915 Aug. 3, 1915 Nov. 8, 1915	0 0 0 0 0	0 0 0 0 0 0	Woody Veg. Veg. Veg. Veg. Veg. Veg. Veg.	1.7 1.6 1.4 1.1 1.1 2.1 1.9	3.7 2.8 2.6 2.3 4.2 2.6 2.8 2.2	2.2 1.5 1.1 1.6 2.1 1.0 1.2	.0018 .0002 .0028 .0060 .0010	.0122	0 0 0 0 0.01	0 0 0 0 0 0 0	0.15 0.22 0.17	1.2 1.0 0.8 1.6 1.2 1.0 1.3

HEBRON.

The source of supply of this town remains the same as in the past. The improvement in the organic condition of this water, noted in my last report, has continued until the water now carries an organic content comparable with its low color. During the past two years this water has been a first-class drinking water.

HEBRON.

			APPE	ARANCE.		ON I	IDUE EVAP- TION-	Аммо	NIA.	NITEG			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates	Nitrites.	Chlorine.	Hardness
8378 8807 9116 9222 9535 9836 0312	Jan. 10, 1914 April 27, 1914 July 20, 1914 Oct. 3, 1914 Oct. 26, 1914 Jan. 18, 1915 April 19, 1915 July 17, 1915 Oct. 27, 1915	0 0.3 0 0 0 0 0 1	0 0 Veg. 0 0 0 0 0 0 Rust	Veg. Veg Slight Slight Veg. Veg. Slight Veg. Veg.	1.3 1.1 1.3 0.2 1.2 1.0 1.9 3.1 5.5	3.5 3.0 2.7 2.4 2.8 3.0 2.6 2.9 3.5	1.1 1.8 1.5 1.5 1.6 2.0 1.3 0.9 1.6	0022 0018 0012 0014 0006 0022 0014 0018 0006	0126 0096 0128 0158 0126 0140 0098 0160 0074	0 0 0 0 0 0 0 0 0 0 Trace	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.18 0.19 0.15 0.16 0.16 0.17 0.16 0.20 0.15	1.3 1.3 1.5 1.8 1.8 1.2 1.2

HOULTON.

			Аррва	RANCE.		on I	idum Evap- Pion.	Аммо	ONIA.	Nitr A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8354	Jan. 12, 191 April 20, 191 June 30, 191	4 0.3		Veg. Veg. Veg.	1.9	8.6 6.5 7.3	5.3 4.5 5.0	.0008 .0012 .0008	.0078	Trace Trace 0	0 0 0	0.20 0.15 0.13	2.2 2.6 4.0
9144 9304 9357	Nov. 13, 191 Nov. 30, 191	4 0 4 0.2 4 0	0	Veg. Veg. Veg. Veg.	1.0 3.3 4.7	9.2 9.7 8.1 8.0	6.9 8.3 5.0 4.6 7.7	.0006 .0008 .0012 .0008	.0080 .0110 .0150	0 0.01 Trace 0 0.02	0 0 0 0 0	0.14 0.27 0.21 0.19 0.27	5.1 7.5 5.0 4.3 6.0
10290 10742	April 12, 191 May 31, 191 July 13, 191	5 0.6 5 0.2 5 0.2 5 0	0 0 0	Slight Veg. Veg. Veg. Veg. Veg.	3.1 4.5 11.0 3.7		3.6 3.5 2.6 4.6 2.7	.0042 .0020 .0006 .0036	.0126	Trace O Trace Trace	0 0 0 0	0.17 0.10 0.04 0.19 0.17	3.3 2.7 2.7 5.0 2.8

ISLAND FALLS.

			Артва	RANCE.		RESI ON E		Аммо	MIA.	Nite			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitritos.	Chlorine.	Hardness.
8333 9170 9519		0 0 0 0.2	0	Veg. Veg. Veg. Veg. Veg. Veg. Veg.	2.2 3.0 1.7 1.6 8.5 7.8 5.8	6.2 5.2 8.2 7.2 4.7 6.4 6.4	3.8 2.3 6.0 5.0 2.0 2.3 1.9	.0006 .0012 .0012 .0006	.0080 .0102 .0078 .0136	Trace 0.03 0	0 0 0 0 0	0.16 0.12 0.10 0.21 0.06 0.17 0.15	3.4 1.7 5.2 4.5 2.1 3.0 2.5

KENNEBUNK.

			Appra	RANCE.		ON E	DUE PAP-	Амм	IONIA.	Nite			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness
8343 8419 8735 8845 9134 9503 9676 9789 9936 10016 10284	May 24, 1915 July 12, 1915 Aug. 1, 1915	0.1 0.5 0.3 0 0.2 0.2 0.3 0.3	0 0 0 0 0 0 Veg.	Veg. Veg. Veg. Slight Veg. Slight Veg. Veg. Veg. Veg. Veg. Veg. Veg.	5.2 5.5 3.7 2.3 2.7 3.2 9.1 10.5 19.0	4.0 4.9 4.0 4.7 5.7 4.8	2.1 2.0 2.2 2.5 3.2 2.8 3.1 2.7 2.5 2.8 1.8 2.0 2.9	.0022 .0004 .0008 .0012 .0004 .0012 .0014 .0006 .0024 .0012 .0014 .0002	0100 .0088 .0098 .0104 .0060 .0078 .0076 .0140 .0138 .0114	0 0 0 0 0 Trace 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.45 0.36 0.33 0.38 0.40 0.42 0.47 0.37 0.40 0.28 0.42 0.26 0.44 0.50	1.5 1.3 1.0 0.8 1.4 1.5 1.5 1.6 1.0 1.3 1.3 0.9 1.0

KEZAR FALLS.

			Appra	RANCE.		on I	IDUE EVAP- TION.	Амм	ONIA.	Nitr			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Flxed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8484 8892 9283 9596 9951 10468	Feb. 17, 1914 May 18, 1914 Aug. 3, 1914 Nov. 9, 1914 Feb. 1, 1915 May 9, 1915 Aug. 10, 1915 Nov. 14, 1915	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0	3.3 3.2 3.7	2.9 2.4 2.6 2.9 2.6 1.9 2.7 2.4	.0008 .0002 0 .0006 .0018 .0002 0	.0012 .0030 .0030 .0020	0.01 0.01 0.027 0 0 Trace	0 0 Trace 0 0 0	0.14 0.12 0.15 0.10 0.14 0.16 0.08 0.08	1.3 1.3 1.9 2.2 1.3 1.2 1.4

KINGFIELD.

			Аррва	rance.		ON I	IDUE EVAP- TION.	Ами	ONIA.		ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitratos.	Nitrites.	Chlorine.	Hardness.
8822 9194 9447 9533 9819 10145 10297 10849	May 14, 1914 June 27, 1914 July 22, 1914 Oct. 20, 1914 Dec. 16, 1914 Jan. 18, 1915 April 14, 1915 June 17, 1915 July 14, 1915	0 1.6 0 0.3 0	0 0 0 0 Veg. 0 0 Rust 0 0	Veg. 0 Veg Veg. Veg. Veg.	1.6 0.6 0.8 8.0 1.1 1.2 0.8 2.1 2.8 1.7	3.1 2.9 3.1 2.9 5.6 4.4 2.7 2.6 2.9 3.2 2.4 3.0	2.1 2.0 2.2 2.0 2.8 2.0 1.7 1.7 1.1 1.2 1.1	.0004 .0008 .0004 .0014 .0016 .0006 .0006 .0004 .0038 .0014	0224 0062 0064 0182 0076 0158 0050	Trace 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.06 0.05 0.12 0.07 0.05 0.04 0.04 0.04	1.5 1.3 1.2 1.3 1.6 1.6 1.2 1.0 1.2 1.5 1.3

KITTERY.

			APPE	ARANCE.		on I	IDUE EVAP- TION.	Аммо	ONIA.	NITRO			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8440 8865 9270 9583 9868 10378	Jan. 23, 1914 May 11, 1914 July 29, 1914 Nov. 4, 1914 Jan. 28, 1915 April 22, 1915 July 26, 1915 Oct. 26, 1915	0	0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg.	5.0 3.0 3.0 4.8 3.4 2.7 3.8 5.5	6.0 2.8 3.0 3.8 3.9 3.8 3.6 3.4	3.5 1.7 2.0 2.3 1.8 2.3 1.3 1.4	.0018 .0020 .0012 .0014 .0094 .0022 .0006 .0012	.0114 .0118 .0162 .0148 .0124 .0174	0 0 0 0 0.01 Trace 0	0 0 0 0 0 0 0 0 0	0.57 0.40 0.45 0.47 0.54 0.51 0.50 0.48	1.2 0.9 1.3 1.2 1.2 1.3 1.1 0.7

LEWISTON.

			Appra	RANCE.		on I	DUE VAP-	Аммо	ONIA.	Nite			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8366 8556 8798 9237 9393 9559 9873 10032 10374 10858	Dec. 8, 1914 Jan. 25, 1915 April 26, 1915 May 29, 1915	0.9	0 0 0 0 0 0	Grassy Grassy O Veg. O Grassy O Grassy Slight	0.1 0.2 0.6 0.2 0.5 0 0.3 1.1 0.2 0.2 0.2	4.0 3.1 3.3 3.4 3.0 3.0 2.6 2.7 3.3 2.2 2.3	2.4 1.8 2.2 1.8 2.1 2.2 2.2 1.3 1.6 1.3 1.0	0014 0020 0006 0014 0012 0012 0014	.0116 .0106 .0080 .0098 .0102 .0096 .0124 .0104	0 Trace 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.23 0.22 0.20 0.24 0.20	1.3 1.6 1.2 1.7 2.0 1.6 1.7 1.2 1.3 2.0 1.0

LIMERICK.

			Appra	RANCE.		RESI ON E	DUB VAP	Амм	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9417 9594 9954 10484	Feb. 19, 1914 May 20, 1914 Aug. 18, 1914 Dec. 14, 1914 Jan. 31, 1915 May 10, 1915 Aug. 11, 1915 Nov. 27, 1915	0 0 0.2	0	0 0 0	0 0.2 0 0.2 0.2 0.1 0.2	3.3 8.9 11.1 11.3 11.0 11.5 11.1 6.1	7.5 8.7 10.0 9.8	.60C2 .0004 .0002 .0008	1.0028	0.05 0.06	0.0002 0 0 0	0.58 0.58 0.75 0.63	1.3 4.8 5.4 7.5 6.0 6.1 8.0 2.4

LIMESTONE.

This is a new supply for us, the first sample coming from the water company in April, 1914. No information is available as to its source, aside from the fact that the water comes from a brook,—a fact borne out by the seasonal variations in the character of the water.

During the past two years this water has been in good condidtion to use for all demestic purposes.

LIMESTONE.

			Аррва	RANCE.		RESI ON E	VAP-	Амм	ONIA.	N1TR			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8784 9460 9668	April 6, 1914 July 14, 1914 Dec. 22, 1914 Feb. 20, 1915 April 13, 1915 July 12, 1915 Oct. 12, 1915	0 0 2.8 0	0 0 0 0 Earthy 0	Veg. Slight Slight Veg.	1.3 0.9 0 0.2 4.8 7.0 1.7	11.0 12.6 12.0 10.7 6.7 9.2 12.7	9.8 10.4	.0012 .0006 .0006 .0022 .0008	.0062	0.01 0.023 0.08 0.06 0 0	0 0 0 0 0	0.35	5.8 8.1 8.3 6.5 1.6 4.2 7.5

LINCOLN.

The source of supply for this town is from a lake in the forest, five miles from the village. The water had been in first-class condition until the first of the winter in 1915, when the main from the lake froze, and was not thawed and re-

paired. Instead water was pumped into the system from a brook which flowed through the village, and past a number of houses before reaching the temporary intake.

Examination of this water showed it to be in very bad physical condition, and to show both bacteriological and chemical evidences of contact with sewage wastes. B. coli were present in lc. c. of the water constantly. The health officer was warned of the condition, and told to advise boiling the water.

In the spring of 1915, after the ground thawed, the main was repaired, and the water has since been in its usual good condition.

One result of the use of this temporary, and polluted, supply was the submission of many samples from the discarded wells of the town; and analysis showed the wisdom of their being discarded, as most of them were polluted.

			Аррва	RANCE.		ON I	IDUB EVAP- TION.	Ами	ONIA.	Nitr			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtmotd.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8920 9228 *9557 *9564	May 4, 191- Aug. 6, 191- Oct. 27, 191- Jan. 25, 191- Jan. 25, 191- April 17, 191- July 26, 191-	0 0.3 0 1.7 5 2.4 5 1.7	Earthy Earthy Earthy Earthy	Veg. Veg. Veg. Woldy Moldy Veg. and Moldy Veg. Veg.	3.7 2.7 1.6 1.2 3.0 3.0 9.0 3.1 2.6	4.5 3.9 4.1 2.8 4.9 5.3 3.8 3.5 2.3	2.5 1.9 1.7 1.5 2.8 3.5 1.4 1.0	.0066 .0066 .0200 .0004	.0100 .0126 .0130 .0188 .0166	0 0 0 0 0 Trace 0 Trace Trace	0 0 0 0 Trace Trace	0.10 0.10 0.12 0.12 0.20 0.17	1.3 0.8 1.4 1.0 1.2 1.2 1.4 1.0

LINCOLN.

LISBON FALLS.

The supply of this town comes from driven wells, as formerly. The only change in the system during the past two years has been in two increases in the number of the wells. The water remains in its former first-class condition.

^{*} Temporary Emergency Supply.

LISBON FALLS.

			Аррва	RANCE.		ON I	DUB EVAP- TION.	Амж	ONIA.		OGEN		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9934 10428	May 12, 1914 July 27, 1914 Nov. 3, 1914 Feb. 2, 1915 May 4, 1915 Aug. 4, 1915 Nov. 15 1915	0 1.7 0 0 0	0 0 Rust 0 0 0 0	Tar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 5.0 0 0 0 0	10.7 10.6 11.3	9.7 10.1 10.8 8.4 7.7 8.7	.0002 .0002 .0004 .0004 .0002 .9008	.0010	Trace Trace 0 Trare Trace 0.01 0 Trace 0.03	0 0 0 0 C Trace 0.0001	0.49 0.46 0.50 0.49 0.48 0.48 0.53 0.50	4.1 6.1 5.4 6.0 6.0 4.7 10.0 6.1 5.7

LIVER MORE FALLS.

	_		Appea	RANCE.		ON I	IDUE VAP- FION.	Аммо	MIA.	NITE A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8387 8621 8825 9235 9396 9571	July 26, 1915 Nov. 2, 1915	0 0 0 0 0 0 0.2 0	0	Slight 0 Grassy Grassy 0 0 Veg.	0.6 0.2	3.0 3.2	2.3 1.4 1.8 1.4 2.4 1.8 2.3 1.0 0.8 0.5	.0006 .0004 .0012 .0008 .0006 .0012 .0014 .0012 .0020 .0006 .0008 .0018	.0102 .0066 .0080 .0116 .0108 .0098 .0114 .0102 .0086 .0092 .0116 .0106	0.01 0 0 0 0 0 Trace 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.22 0.18 0.18 0.16 0.20 0.25 0.26 0.20 0.17 0.20 0.19	1.9 1.3 0.9 1.0 1.5 1.5 1.8 1.0 1.3 1.3

LUBEC.

The effect of the increased population of the watershed of the springs, which furnish the source of the supply of this town, which was noted in my last report is to be noted in an increased degree in the samples of the last two years. The springs have also been receiving more surface wash than in years past, and so have carried a slight degree of turbidity pretty constantly. The water has, however, been free from pollution, and has remained a safe drinking water.

If the surface wash and increasing effect of population continues there will be some change necessary in the method of protection of these springs.

LUBEC.

			Аррва	BANCE.		ON I	IDUE EVAP- TION.		OWIA.	Nite	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8450 8853 9251 9642 9880 10506	Feb. 2, 1914 May 11, 1914 July 27, 1914 Nov. 2, 1914 Feb. 9, 1915 April 26, 1915 Aug. 16, 1915 Nov. 10, 1915	0.6 0.3 0.2 1.7 0.7	0 0 0 0 0	0 0 0 0 Bitters Slight 0	1.4	16.0 15.5 17.2 12.5	10.5 8.8	.0002 .0002 .0002 .0024 .0004	.0040 .0052 .0048 .0088 .0028 .0044	0.30 0.44 0.32 0.17 0.18 0.28 0.28 0.32	Trace Trace Trace 0.0010	1.63 1.90 1.85 1.77 1.42 1.87 1.85 1.94	5.5 8.1 7.0 11.3 5.2 7.7 10.2 5.7

MACHIAS.

The supply of this town comes from the Machias River. The water has been free from evidences of pollution during the past two years. It has, at times, carried a very high color and vegetable content, so that its use might cause complaint from a physical point of view.

This supply, coming as it does from a large river, even though above the point of navigation, is one that needs careful watching, as growth of population on the watershed above the intake will result in such pollution of the water as will render filtration necessary in the future.

MACHIAS.

			APPEA	RANCE.		en E	DUB VAP- TION.		ONIA.	Nitr			
Number	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8316 8570 8721 9143 9392 9494	Dec. 7, 1914 Jan. 9, 1915 April 6, 1915 June 7, 1915 July 5, 1915 Oct. 2, 1915	0 0.2 0.6 0.6 0.1 0.4	0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	5.5 5.0 4.0 2.6 9.0 3.3 3.5 8.0 10.5	3.4 3.8 3.0 5.5 4.0 3.2 2.2 3.9 3.6	2.4 1.5 1.8 2.0 1.6 2.5 2.0 2.0 1.3 1.5 1.0	.0018 .0018 .0012 .0012 .0006 .0014 .0006 .0008 .0012 .0010 .0006	.0082 .0100 .0092 .0086 .0154 .0114 .0078 .0222 .0194 .0124	0 0 0 0 0 0 0 0 Trace 0 Trace	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.25 0.15 0.13 0.22 0.25 0.45 0.36 0.23 0.19 0.21 0.28 0.30	1.3 0.9 1.2 1.5 1.5 1.5 1.6 0.9

MADISON.

This town still takes its water from the Kennebec River. Late in 1915 arrangements were in hand for the Village Corporation to take over the water system of the Madison Water Company, and, combining with the town of Anson, obtain its water supply from Hancock Pond in the town of Embden.

The water supply of this town had long been under suspicion. Not only was the water taken from one of our large rivers, but there seemed to be a possibility of pollution of the water by the town of Madison itself, together with the town of Anson, on the opposite side of the river.

However the laboratory tests failed to show the presence of B. coli until the first of March, 1915. Since that time they have been constantly present in the water.

There had been considerable typhoid fever present in Madison late in 1914 and early in 1915. The local health authorities became convinced that the water was to blame, and complaint was made to the Public Utilities Commission that the water was impure. The Commission made an investigation through their chief engineer, and the water samples were examined at this office.

The investigation developed the following general conditions connected with this supply:—The sewers of the town of Madison all emptied into the Kennebec River below the dams. The intake of the Madison Water Company was located above the dam, and about at the head of the flowage of the dam. Since the trouble with this supply in 1909 the water company had extended their intake up the river, nearly to the point where their old upper intake was located.

Some of the houses in the northern part of the village of Madison were outside of sewer connections, and these houses drained, by surface drainage, into the river above the dam, Rowell Brook, entering the river slightly above the intake, carried some of this surface drainage.

The town of Anson was unsewered. The surface drainage of the town entered the river either directly over the banks of the river, or was brought into the river by two brooks, both entering above the dam. Of these two Getchell Brook was the larger, carried the most drainage pollution, and entered the river near the west corner of the dam. A number of houses

on the Anson side of the river had privies practically overhanging the river.

The question arose whether the pollution of the water came from the towns farther up river, or from the towns of Anson and Madison themselves. The current in the river would seem to be such as to carry the drainage from both Rowell and Getchell brooks away from the intake. The only sewer on the upper river was a small one, serving about 75 people, at Bingham. The water company had been warned of impending trouble when Bingham should become sewered, and was prepared to sterilize the water when this occurred.

Water samples, taken by the engineer of the Commission above the flowage from the dam, showed no evidence of contamination. All samples taken in the mill pond, at the intake, and from the taps showed the presence of B. coli. The analyses indicated that the water from Rowell Brook probably could affect the intake, and it was possible that, on a filling pond, contamination from Getchell Brook might come as far up as the intake.

It was evident that the trouble lay, as it did in 1909, in the pollution of the towns water supply by the town itself. The Commission ordered the water company to furnish pure water, either by use of a new source of supply or by filtering the river water. Financially the latter was the wise course, and the Company prepared to install a modern filter. This the people of Madison did not want, and they requested the Commission to have the water company suspend operations on a filter until they should decide whether or not to purchase the plant of the water company. This action was finally taken, and arrangements made for the union with the town of Anson to obtain a pure water supply from Hancock Pond.

At the present time the river water is in use in the mains of the town of Madison. Construction of the pipe line is to begin in the spring, but, until its completion the river water must remain in use

It is interesting to note that here is an instance of a water supply which is not constantly polluted. The pollution is caused by surface wash from the two towns about the millpond During dry weather the wastes accumulate, and are washed into the river by the first heavy rains. After the first thorough washing of the top of the ground the water is free from pollution to any extent until after the next period of dry weather. Thus the first of a rising river caused pollution while the height of the flood and its fall did not.

MADISON.

					Арриа	rance.			DUE VAP- PION.	Axor	ONIA.	NITE	OGBN 8		
Number.	COLL	PB O		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8309 8724 9108 9507 9691	July Oct. Jan. Mar. April June July	13, 7, 4, 12, 8, 3, 12,	1914 1914 1914 1914 1915 1915 1915 1915	0 0 0.3	0 0 0 0 Veg. 0	Veg. Veg. Slight Veg. Veg. Veg. Veg. Veg. Veg. Veg.	2.0 1.5 1.6 3.8 2.7 2.6	3.5 3.2 3.5 4.0 4.1 3.5	1.5 2.0. 2.0 2.0 2.0 2.2 2.3 1.6 1.5	.0022 .0008 .0014 .0008 .0012 .0012 .0014 .0004	.0112 .0100 .0064 .0076 .0100 .0114 .0118	0 0 `Trace	0 0 0 0 0 0 0 0 0 Trace	0.09 0.11 0.06 0.06 0.11 0.10 0.09 0.03 0.02	1.1 1.7 1.3 1.5 1.6 1.6 1.2 1.3

MARS HILL AND BLAINE WATER COMPANY.

			Арриа	RANCE.			DUE VAP- TION.	Амм	ONIA.		OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	NAttes.	Chlorine.	Hardness.
9306 9669 10011	Aug. 13, 1914 Nov. 14, 1914 Feb. 23, 1915 May 19, 1915 Nov. 9, 1915	0	Veg. 0 0 0 0	Veg.	1.4 0.1 1.6	7.8 6.9 6.5 5.1 7.7	5.6 6.4 5.7 2.1 4.8	.0006 .0014 .0036 .0008	.0040	0 Trace 0.05 0.03 0.01	0.0005 0	0.12	6.2 4.5 4.7 2.7 4.7

MECHANIC FALLS.

	•		Appp	arance.		ON I	IDUM EVAP TION	Ампе	ONIA.	Nitro As	GEN		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumtnoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8635 8712 9166 9415 9505	April 14, 1914 June 20, 1914 July 6, 1914 Oct. 13, 1914 Dec. 14, 1914 Jan. 12, 1915 April 5, 1915 June 12, 1915 July 12, 1915 Oct. 2, 1915	0 0 2 0 0 0 0 0 2 0 2 0 7 0 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slight Slight Veg. Veg. Slight Slight Veg. Veg. Veg. Veg.	1.1 1.4 1.0 1.8 1.2 0.3 1.4 3.1 1.6 4.5 1.3 1.6	4.9 3.6 3.9 5.0 4.5 5.3 4.8 4.4 4.1 5.5 3.9 4.0	2.7 2.4 2.2 3.1 3.0 4.0 3.6 2.5 1.9 2.8 2.6 2.0	.0018 .0012 .0006 .0014 .0006 .0008 .0006 .0018 .0020 .0002 .0318 .0004	0118 0114 0104 0118 0134 0090 0094 0114 0078 0160 0134 0092	0.01 0 0 Trace 0 0 Trace 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.29 0.24 0.27 0.26 0.31 0.31 0.33 0.27 0.32 0.22 0.28 0.36	2.7 1.8 1.3 2.1 1.5 3.6 2.2 1.6 1.7 1.3 1.7

MEXICO-MEXICO WATER COMPANY.

			Аррва	Arance.		ON 1	idub Evap- Tion.		ONIA.	Nite A	OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8417 8873 9253 9588 9903 10438	Jan. 19, 1914 May 5, 1914 July 30, 1914 Nov. 2, 1914 Feb. 1, 1915 April 28, 1915 Aug. 5, 1915 Nov. 15, 1915	0.3 0.5 0.3 0.2 0.7 0.1	0	Slight Veg. Veg. Veg. 0 Veg. Veg. Veg.	1.3 1.2 3.3 3.0 1.6 3.1 1.9	3.2 5.7 6.0 5.5 4.3 5.4	3.4 1.8 3.1 4.1 3.3 2.2 3.7 3.4	.0012 .0008 .0016 .0006 .0008 .0008	.0098 .0168 .0146 .0088 .0136 .0150	O Trace Trace O Trace Trace O	0 0 0 0	0.12 0.10 0.03 0.28 0.18 0.08 0.13 0.20	1.3 1.3 1.6 2.2 1.9 1.3 1.6

MEXICO-BINFORD WATER SYSTEM.

			Аррва	ARANCE.		ON 1	IDUE EVAP- TION.	Avor	ONIA.		logen Ls		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Pixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8475 8984 9318 9629 9958 10465	Feb. 16, 1914 May 18, 1914 Aug. 17, 1914 Nov. 16, 1914 Feb. 8, 1915 May 10, 1915 Aug. 10, 1915 Nov. 8, 1915	00000	0 0 0 0 0 0	0 Slight 0 0 0 0	0.2 0 0 0 0 0	6.0 8.0 6.2 7.4	5.7 5.6 5.6 5.0 6.4 4.6 5.0 5.4	.0010 .0008 0 .0004 .0020 .0002 .0004	.0030 .0026 .0018 .0020 .0004 .0024	0.14 0.09 0.03 0.03 0.27 0.07 0.14 0.09	0 0 0 0 Trace 0 0	0 38 0 34 0 81 0 23 0 79 0 32 0 28 0 32	3.0 2.7 2.9 2.2 3.3 2.7 3.4 3.0

MILBRIDGE.

			Appea	RANCE.		ON I	IDGE CVAP- PION.	Амм	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8452 8964 9250 9604 9879 10514	Feb. 2, 1914 May 11, 1914 July 28, 1914 Nov. 2, 1914 Feb. 1, 1915 April 26, 1915 Aug. 17, 1915 Nov. 9, 1915	0	0 0 0 0 Rust 0 0	Slight Slight 0 0 Slight Veg. 0	0 0 0 2.5 2.1	4.4 3.4 3.5 5.1 4.6 3.4 4.1 3.8	3.3 2.8 2.9 4.3 2.9 1.7 2.4 2.5	.0002 .0006 .0004 .0014 .0008 .0008 0	.0038 .0028 .0054 .0106 .0026	0	0 0 0 0 0	0.67 0.67 0.66 0.69 0.74 0.58 0.63 0.58	1.6 1.3 1.4 2.4 2.2 1.3 2.6 1.2

MILLINOCKET.

			Арриа	RANCE.		ON E	IDUB VAP- TION.	Амис	ONIA.	Nitr A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8330 8676 8550 9121 9365 9509	Jan. 5, 1914 April 14, 1914 June 27, 1914 July 25, 1914 Oct. 6, 1914 Nov. 30, 1914 Jan. 11, 1915 April 6, 1915 May 29, 1915 Oct. 4, 1915 Dec. 1, 1915	0.2 0 0 0 0 0.1 0.2	0 0 0 0	Veg. Veg. Veg. O Veg. Veg. Veg. Veg. Veg. Veg.	3.4	4.0 3.6 3.5 3.4 3.7 2.8 3.8	2.0 2.0 1.7 1.7 1.8 2.0 1.1 1.5 1.0 1.7	.0006 .0018 .0006 .0008 .0006 .0012 .0014	.0128 .0112 .0116 .0148 .0166 .0126 .0138 .0126 .0114 .0142 .0108	O O O O O O O O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0 Trace	0.09 0.05 0.11 0.06 0.08	1.3 1.7 1.2 1.2 1.3 1.5 1.1 1.6 1.0

MILO.

			Аррва	RANCE.		on I	DUE VAP- TION.	Амм	ONIA.	NITE	ogen 18		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8730 9115 9500	April 13, 1914 Ju y 7, 1914 Oct. 5, 1914 Jan. 11, 1915 April 4, 1915 July 5, 1915	0 0 0 0 0.2	0 0 0 0 0	Veg. Veg. 0 Veg. Slight Veg. Veg. Veg.	2.7 2.7 1.7 1.7 1.4 3.6 2.5 3.2	3.8 3.1 2.4 4.0 3.5	2.1 2.1 1.4 1.5 2.3 1.4 1.3	.0014 .0016 .0006 .0026 .0012 .0002		0 0 Trace 0.01 Trace 0	0 0 0 0 0 0 Trace	0.11 0.26 0.10 0.10	1.3 1.7 1.4 1.3 1.2 1.2 1.0

MILO JUNCTION.

As at the time of my last report this town takes its water supply from the Piscataquis River, and within 8 miles of the outfall of the Dover and Foxcroft sewers. Naturally the water supply of this town shows up much poorer than does that of Dover. In fact the added effect of the sewage of these two towns is very noticeable even in the chemical analysis.

This is another of our polluted supplies from the large rivers of the State. This water has been safe to use for drinking at no time during the past two years.

			Appra	RANCE.		ON I	IDUB EVAP- TION.		ONIA.		OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8731 9114 9501	April 13, 1914 July 7, 1914 Oct. 5, 1914 Jan. 11, 1915 April 4, 1915 July 5, 1915	0 0 0 0.2 0.2	0 0 0 0 0 0	Veg Veg. Veg. Veg. Veg. Veg. Veg.	3.7 1.7 1.5 1.6 3.6 3.6	3.0 5.3 4.5	2.6 2.4 2.2 2.0 3.1 2.0 1.9 2.6	.0006 .0012 .0014 .9012 .0012	.0122 .0108 .0129 .0102 .0112 .0120 .0160 .0148	0.02 0 0 Trace 0.02 0.01	0 0 0 0 0 0 0 Trace	0.17	1.6 1.3 1.7 1.8 1.5 1.9 1.3

MILO JUNCTION.

Monhegan.

During the spring of 1915 a system of driven wells was put into operation to supply water for the summer colony, and analyses were made of these waters during the three summer months. The wells are 300 feet away from the nearest possible source of pollution, and are thoroughly protected against the entrance of surface wash. They are all pumped by a gasoline engine. The water from this supply has been first-class, and in marked contrast to the water from the shallow wells on the island.

MONHEGAN.

•			Агрва	rance.		ON I	IDUM VAP- PION.	Амон	ONIA.		ROGEN AS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminotd.	. Nitrates.	Nitrites.	Chlorine.	Hardness.
10489 10490 10593 10594	July 7, 1915	000000000000000000000000000000000000000	0 0 0 0 0 0 0 Slight	0 0 0 0 0 0 0 Veg.	0 0 0 0 0.3 1.0	17.1 17.7 19.7 18.6 19.0 18.4	13.3 13.4 13.6 14.0 12.9 13.8 13.3	0 .0002 .0002	.0044 .0026 .0026 .0028 .0084 .0058	0.04 0.04 0.04 0.04 0.04 0.04 0.03 0.03	Trace Trace 0 0	4.45	6.8 6.8 5.4 8.6 8.6 9.36 10.08 7.20

MONSON.

			Аррад	RANCE.		ON E	DUE VAP- PION.	Амм	ONIA.		LOGEN LS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8506 8983 9349 9636 9925 10470	Feb. 19, 1914 May 21, 1914 Aug. 17, 1914 Nov. 25, 1914 Feb. 9, 1915 May 3, 1915 Aug. 9, 1915 Nov. 29, 1915	0 0 0 27.2 0	0 0 0 0 0 Clay 0 0	0 0 0 0 0 0 0	0 0 0 0.1 0	4.1 2.9 3.9 6.4 29.4 4.3 5.8 4.8	3.3 2.2 2.9 5.4 27.9 2.9 3.3 3.6	.0018 .0002 .0018 .0010 .0002 .0006	.0024 .0028 .0038 .0024	0.01 0 0.02 0.01 0.01 0.02 0.02 0.02	0 0 0 0 0	0.12 0.08 0.09 0.10 0.08 0.02 0.08 0.10	1.9 1.3 3.0 2.2 2.0 2.5

NEWHALL.

This supply is taken from the Presumpscot River. As was noted in my last report this water is open to sewage pollution. During the past two years this pollution of the river has increased, as shown by the bacterial condition of the water. Not only is there opportunity of pollution of the supply from the drainage of the upper watershed of the river, between the intake and Sebago Lake, but a brook enters the river just above the intake, along which are privies, pig-pens, stables and cesspools, none of them over 1,500 feet from where the brook enters the river.

This latter condition was first mentioned by the owners of the plant in October, 1915, and examination of the brook water showed it to be grossly polluted. This water should be filtered, or at least sterilized, before being used for drinking purposes. This plant is not strictly a public water supply, but is used by the Du Pont Powder Company in their mill, and is used by their employees for drinking while at work. In its present condition this water is not a safe one to use for drinking.

NEWHALL.

-			Аррва	Bance.		ON I	IDUE EVAP- TION	Амм	ONIA.		ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummotd.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8315 8717 9146 9490	Jan. 11, 1915 April 5, 1915 July 12, 1915	1.6 0.4 0 0.4 0.2 0.8		Slight Veg. () Veg. Veg. Veg.	1.6 1.5 1.1 1.2 1.6 7.5	3.7	2.0 2.2 1.9 1.3 1.2 1.6 1.5	.0006 .0008 .0024 .0006 .0012 .0014 .0002	.0110 .0136 .0084 .0108 .0086 .0196	Trace 0 0 0 0 0 0 0.01 0 Trace	0 0 0 0 0 0 0 0 0	0.18 0.20 0.18 0.18 0.21 0.20 0.14 0.19	1.9 1.2 1.2 0.9 1.3 2.0

NEWPORT.

			Appra	RANCE.		ON I	IDUB EVAP- TION.		ONIA.	Nite A	ogen 8		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8365 8576 8787 9137 9350 9383 9541 9854 10034	April 22, 1915 May 31, 1915 June 7, 1915 July 30, 1915 Oct. 15, 1915	0 0 0.2 0 0 0.7 0.2 0.2 0.4 0	0 0 0 Earthy 0 0	Veg. Slight Veg. Veg. Veg.	1.8 1.9 1.6 1.1 1.2 1.3 1.3 2.7 3.3 3.0 2.2 2.1 2.5	5.0 3.7 5.9 8.0 8.0 6.5	2.6 3.5 2.8 2.8 2.3.5 4.3 3.2 2.8 2.9 3.4 3.2 3.5	.0014 .0029 .0012 .0014 .0012 .0018 .0020 .0014 .0004	.0088 .0092 .0142 .0146 .0140 .0204 .0146 .0210 .0178 .0144	0 0.05 0 0 0 Trace 0.05 0.03 Trace Trace Trace Trace 0.013 0.015	000000000000000000000000000000000000000	0.35 0.26 0.25 0.28 0.26 0.32 0.31 0.27 0.30 0.28 0.40 0.31	1 4 2.4 1.6 1.8 3.6 3.7 3.0 2.0 2.0 2.7

NEW SHARON.

This town has a double source of supply, one source from the Sandy River, and the other from a system of driven wells near the river bank. This latter system furnishes a first-class water,

and is the one reported to be in use as long as the wells yield enough water to meet the consumption demands of the village.

When the wells do not yield enough water the connection into the Sandy River is used. This river does not furnish a safe source of supply. Eight miles above the intake the sewage from two houses enters the river, and thirteen miles above the intake the sewage of the town of Farmington enters the river.

Twice, during the period covered by this report, the analyses have shown the river water to have been in use. The water samples have come from the local health officer, and he has been advised that the only way to keep this supply safe at all times is to further develop the well field, so as to meet all demands on the system, and to discontinue the use of the river water.

When the river water is in use the safety of the water from this supply, like that from all rivers flowing through settled localities, depends on the fortunate absence of disease organisms from the sewage entering the river above the intake.

As long as the water from the wells is the only one in use with this system the supply is first-class. With the river water in sole, or even in partial use, the supply does not furnish a safe water, and it should be boiled at such times before using it for drinking.

			Аррва	RANCE.		RESI ON E	DUE VAP- FION.	Ами	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8510 9006 9340 9640 9973 10486	Mar. 9, 1914 May 22, 1914 Aug. 26, 1914 Nov. 20, 1914 Fel. 9, 1915 May 11, 1915 Aug. 11, 1915 Nov. 25, 1915	0.6 0 0 0.1 0.1	0 0 0 0 0	Moldy 0 Veg. Woody 0 0	0 0 0 2.8 1.8 0.2 0.2	9.2	8.2 7.5 3.3 3.1 8.0 8.4	.0006 .0014 0 .0006 .0026 .0012 0	.0036 .0022 .0142 .0086 .0036	0.02 Trace 0.04 0.02 0.01 0.05 Trace	0 0.0002 0 0 0 0	0.24 0.25 0.24 0.25 0.17 0.27 0.41 0.27	6.7 4.8 3.0 3.0 6.4 9.0

NEW SHARON.

Norridgewock.

The water from this supply has not been in quite as good general condition during the past two years, as it has been in

previous years. There has been more surface wash entering the supply, and at times, especially after heavy rains, there has been evidence of household wastes being brought into the supply with this wash. Sewage bacteria have not been found in the water; but the supply is one that requires careful attention to the surroundings of the source and watershed if its safety is to continue.

NORRIDGEWOCK.

			Аррил	leance.		ON I	idub EVAP- Tion	Амм	ONIA.	Nitr A	ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8418 8848 9232 9573 9861 10387	Jan. 22, 1914 May 5, 1914 July 27, 1914 Oct. 26, 1914 Jan. 26, 1915 April 21, 1915 July 27, 1915 Nov. 1, 1915	0 0.6 0 1.3 0.3 0.5	0 0 0 0 Clay 0 Earthy	Slight Moldy 0 Veg. 0 Veg. Veg. Veg.	1.4 1.1 1.5 1.0 3.6 2.9	7.1 6.4 5.3 6.5	4.7 3.4 5.2 4.5 4.2 3.2 4.3 2.2	.0014 .0136 .0004	.0088 .0044 .0078 .0054 .0112	0.12 0.15 0.085 0.07 0.07 0.11 0.04 0.04	Trace 0.0003 0.0004 0 0 0.0010 0	0.65 0.62 0.68 0.88 0.52 0.63 0.64 0.72	1.6 2.4 3.0 1.9 2.4 2.6

NORTH BERWICK.

		•	Appea	rance.		ON E	IDUB VAP- TION.	Axor	ONIA.	Ni t r	OGEN /]		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8303 8781 9136 9512		0 0.3 0.2 0 0.3 0.2	0 0 0 0 0	Veg. Veg. Slight 0 Slight Veg. 0 Veg.	1.2 3.4 0 1.4 1.4 3.7 1.9 2.1	5.7 6.7 4.1 3.7	4.8 3.0 4.1 3.1 2.7 3.0 2.5 3.3	.0002 .0006 .0006 .0006	.0058 .0092 .0046 .0152 .0050 .0140 .0076 .0262	0 0 0 0 Trace Trace Trace	0 0 0 0 0 0	0.29 0.30 0.25 0.26 0.26 0.39 0.23	1.0 1.7 1.6 1.5 1.5

NORTHEAST HARBOR.

			Арриа	BANCS.		ON E	IDUN VAP- TION	Axoc	ONIA.	NITE			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Pixed.	Free.	Albuminotd.	Nitratos.	Nitrites.	Chlorine.	Hardness.
8501 8754 9207 9574 9845 10304	Feb. 12, 1914 May 20, 1914 July 11, 1914 Oct. 22, 1914 Jan. 25, 1915 April 17, 1915 July 14, 1915 Oct. 16, 1915	0 0 0 0 0 0.2	0 0 0 0 0 0	Veg. Grassy Grassy Slight Slight Veg. Veg.	1.7 1.1 1.1 1.4 1.2 1.4 4.0 1.8	3.9 3.7 2.9 4.5	2.8 1.7 1.9 2.2 2.2 1.9 1.6	.0080 .0058 .0014 .0018 .0036 .0050 .0056	.0170 .0132 .0080 .0076 .0100 .0222	Trace Trace 0 0 0 0 Trace	0 0 0 0 0 0 0 Trace	0.82 0.60 0.60 0.59 0.83 0.69 0.51 0.50	0.9 1.2 1.2 1.5 1.5

NORTH NEW PORTLAND.

		l	Арриа	RANCE.		ON E	DUE VAP- PION.		ONIA.		OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8467 8913 9271 9638 9904 10517	Feb. 1, 1914 May 12, 1914 July 29, 1914 Nov. 5, 1914 Feb. 6, 1915 April 22, 1915 Aug. 16, 1915 Nov. 13, 1915	00000	0 0 0 0 0	0 0 0 0 0 0	0.1 0 0 0 0 0 0 0.1	3.3 4.0 6.9	3.2 2.8 3.1 6.0 2.8 2.2 2.5 3.4	.0004 .0602 0 .0004 .0002 .0006 .0008	.0034 .0022 .0016 .0022	0.01 Trace 0.030 0.02 Trace 0.02 0.01 0.02	0 0 0 0 0 0	0.035 0.06 0.06 0.11 0.07 0.07 0.15 0.06	1.4 2.1 3.3 1.6 2.1 2.3

NORWAY.

			Арриа	RANCE.		OW E	IDUB VAP- TION.	Axor	ONIA.		ogen 8		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummold.	Nitrates.	Nitritor.	Chlorine.	Hardness.
8405 8844 9255 9561 9870 10362	Jan. 27, 1914 May 4, 1914 July 27, 1914 Nov. 2, 1914 Jan. 25, 1915 April 26, 1915 July 26, 1915 Nov. 8, 1915	0.2 0 0 0 0	0 0 0 0 0	Veg. Grassy Veg. Slight Slight Grassy Grassy Veg.	1.1 0.7 1.1 1.0 0.7 1.1 1.6 1.3	4.0 3.3 3.6 4.6 3.4 3.0	3.0 2.5 1.6 2.3 2.8 1.7 1.2	.0004 .0002 .0014 .0012 .0008	.0096	Trace 0 Trace 0 0 Trace 0	0 0 0 0 0	0.20 0.16 0.15 0.15 0.20 0.20 0.15	1.3 1.4 1.5 1.6 1.3

OAKLAND.

		APPRA	rance.		ON I	IDUB EVAP- TION.		ONIA.		OGEN LS		
OLLECTION DATE OF	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
803G Jan. 13, 16 8348 April 21, 18 8514 May 26, 18 8588 June 9, 18 8771 July 13, 18 9168 Oct. 13, 16 9373 Dec. 5, 18 9529 Jan. 18, 16 9726 Mar. 26, 19 9809 April 13, 18 10076 June 7, 11 1032 July 19, 11 10752 Oct. 16, 11	014 0 014 0 014 0 014 0 014 0 015 0 015 0 015 0.2 015 0.1	000000000000000000000000000000000000000	Grassy Grassy Veg. Grassy Veg. Veg. Veg. Grassy Grassy Veg. Grassy Veg.	1.6 1.3 1.6 1.4 1.2 1.4 1.5 1.4 1.2 2.2 1.8	3.1 3.5 3.7 3.1 3.2 3.5	2.3 1.5 1.6 1.7 1.5 2.0 1.6 1.8 1.9 1.2 1.1	.0028 .0006 .0014 .0006 .0014 .0012 .0014 .0010 .0006 .0006	.0108 .0130 .0138 .0122 .0102 .0128 .6106 .0130 .0138 .0134 .0098 .0124	0 0 0 0 0 0 0 0.07 0 0 Trace 0 Trace	000000000000000000000000000000000000000	0.21 0.16 0.17 0.15 0.14 0.10 0.22 0.17 0.18 0.16 0.17 0.20	1.0 1.2 1.4 1.3 1.6 1.3 1.7 1.3 1.7

OLD TOWN.

The source of supply for this city has continued to be the Penobscot River. The river, at the Old Town intake, is badly polluted, and the amount of the pollution has increased during the past two years, so that the water is now in even poorer condition than at the time of the last report. The matter of purification of this supply is now before the Public Utilities Commission, together with the Brewer supply. I am informed that the Bangor Railway & Electric Company, who own this supply, are intending to make a change in its source, and, until this change can be accomplished, are contemplating treatment of this water with liquid, or electrolytic chlorine.

In its present condition this water is one of the poorest in the State, and is not safe to use for drinking purposes.

OLD TOWN.

			Аррва	RANCE.		ON I	IDUB VAP- TION.	Амм	ONIA.	Nite Af	OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8326 8740 9112 9385 9389 9504	Jan. 5, 1914 April 14, 1914 July 7, 1914 Oct. 4, 1914 Dec. 6, 1914 Dec. 6, 1914 Jan. 10, 1915 April 4, 1915 July 6, 1915 Oct. 3, 1915	0.2 0 0.2 0.3 0.2 0.2 0.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Woody Veg. Veg. Veg.	3.4 3.3 2.6 4.5 4.4 2.8 3.4	4.4 5.1	2.3 20 1.8 2.2 3.7 2.9 3.4 1.7 1.5	.0014	.0106 .0136 .0144 .0160 .0156 .0142 .0134	Trace Trace 0 0.01 0 Trace 0 0 0	0 0 0 0 0 0 0 0 0 0	0.12 0.10 9.05 0.10 0.16 0.11 0.17 0.12 0.10	1.1 1.5 1.5 1.7 2.2 1.5

ORONO.

			Аррва	Rance.		ON I	IDITE EVAP- TION.		ONIA.		OGEN 9		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8331 8728 9119 9518	Jan. 6, 1914 April 15, 1914 July 7, 1914 Oct. 6, 1914 Jan. 15, 1915 April 6, 1915 July 7, 1915 Oct. 5, 1915	0 0 0.2 0.1	0 0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg.	7.0 3.8 2.3 1.4 1.6 4.5 3.7 3.6	4.5 3.7 3.7 3.2 3.6 4.3 3.1 3.2	1.7 1.5 1.6 1.7 2.1 2.0 1.3 1.2	.0016 .0006 .0009 .0012 .0020	.0117 .0138 .0176	0 0 0 Trace 0 0	0 0 0 0 0 0	0.25 0.20 0.17 0.25 0.26 0.24 0.19 0.17	1.0 1.3 1.6 1.8 1.3

PATTEN.

			Арред	BANCE.			DUB VAP-	Амм	ONIA.		ogen s		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nttrates.	Nitrites	Chlorine.	Hardness.
8491 8992 9281 9631 9979 10467	Feb. 17, 1914 May 18, 1914 Aug. 19, 1914 Nov. 9, 1914 Feb. 9, 1915 May 12, 1915 Aug. 9, 1915 Nov. 18, 1915	0 0.8 0 0 0.3	Earthy 0 Rust 0 Rust 0 Rust 0 0	0 0 0 0 0	0 0.1 0 0.1 0 0 0	10.7	11.6 9.4 4.8 6.6	.0008 .0002 0 .0006 .0014	.0022 .0034	0.12 0.06 0.08 0.12 0.11 0.28 0.12 0.09	0.0061 0 0 0.0001	0.35 0.36 0.29 0.35 0.32 0.60 0.43 0.41	6.2 4.0 11.15 7.8 6.0 4.6 9.5 5.7

PEAKS ISLAND.

		Appearance.				RESIDUE ON EVAP- ORATION.				Nitrogen as			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorino.	Hardness.
8500 8958 9285 9605 9985 10308 10455	Feb. 21, 1914 May 21, 1914 Aug. 12, 1914 Nov. 9, 1914 Feb. 2, 1915 May 13, 1915 July 16, 1915 Aug. 8, 1915 Nov. 15, 1915	000000	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	17.4 17.0 21.2 16.5 22.6 12.7 18.4	14.8 14.0 19.7 14.5 20.1 10.2	.0002 .0012 .0008 .0008 .0180 .0006	.0010 .0028 .0038 .0028 .0020	Trace 0.04 0 0.02 0.01 0.04 0.037 0.014 Trace	0 0 0 0.0002 0.0050 0.0001 0	1.80 1.70 2.00 1.77	8.9 12.0 7.5 11.2 5.7 9.8

PHILLIPS.

			Appra	RESIDUE ON EVAP- ORATION.		Анконта.		Nitrogen AS					
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8414 8590 8851 9216 9395 9607	April 26, 1915 June 7, 1915 July 26, 1915 Nov. 1, 1915	0.2 0 0.8 0 0 0 0 0.2 0	Veg. 0 0 0 0 0 0 0 0 0	Veg. Grassy Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	3.7 1.9 1.8 1.6 1.6 1.6 2.9 2.6 2.8 2.4	4.0 2.9 2.7 2.7 3.8 3.0 2.9 2.7 3.7 3.1	2.2 1.8 1.2 1.3 2.5 1.8 1.2 1.5 1.5 1.5	.0012 .0012 .0018 .0006	.0074 .0078 .0122 .0108 .0096 .0108 .0084 .0104	Trace 0 0.01 0 Trace	000000000000000000000000000000000000000	0.13 0.05 0.05 0.05 0.07 0.10 0.00 0.04 0.06 0.05	1.0 1.2 1.5 1.5 1.5 1.0 1.4 1.3

PITTSFIELD.

The old source of supply of this town was from the Sebasticook River. As noted in my last report the water company was engaged in developing a spring water system, which it was hoped to have in operation early in 1914. It was not ready for operation in any form until the first of 1915. During the last year the samples from the water company have been from the spring water system entirely, although it was reported that the river water was still in partial use in mixture with the spring water. Samples from other parties showed this to be the condition, although it is now reported that the spring system is fully developed and ready for sole use in this supply.

It is to be hoped that this is the condition, as the supply, with mixture of even 10% of river water, is unfit to drink.

PITTSFIELD.

		Appearance.				RESIDUE ON EVAP- ORATION.				NITROGEN AS			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8341 8723 9148 9532 9685 9793 10137 10939	Jan. 14, 1914 April 20, 1914 July 7, 1914 Oct. 12, 1914 Jan. 17, 1915 Mar. 3, 1915 April 10, 1915 June 17, 1915 Nov. 19, 1915 Nov. 29, 1915	0.3 0.3 0.3 0 0 0 0 0	Veg. 0 0 0 0 0 0 0	Veg. Veg. Veg. Veg. 0 0 0 Veg. Veg.	1.7 2.1 0 0 0 0 0 2.1	4.1 4.7 3.7 9.5 9.7 7.8 9.7 7.0	3.0 2.2 2.2 2.2 2.2 8.5 8.7 7.2 5.7 5.2 4.0	.0012 .0006 .0012 .0008 .0002 .0010	.0146	Trace 0 0 0 0.06 0.06 0.03 0.06 0.02 0.015	000000000000000000000000000000000000000	0.23 0.14 0.10 0.11 0.23 0.25 0.18 0.24 0.20 0.17	1.7 1.7 1.8 7.2 6.1 4.7 5.4 4.3

PORTLAND.

Number.	DATE OF CULLECTION.		APPEARANCE.				RESIDUE ON EVAP- ORATION		ONIA.	NITROGEN AB			
		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid,	Nitrates.	Nitrites.	Chlorine.	Hardness.
8368 8595 8659 8792 9217 9354 9425 9537 9829 10044 10127 10203 10355 10774	June 15, 1915 June 28, 1915 July 24, 1915	0.6 0 0 0.2 0 0 0 0 0 0 0 0	Rust 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Slight Slight Veg. 0 Slight 0 0 Slight Veg. Slight Slight Slight	1.0 0.7 0.7 0.2 0.6 1.0 1.1 0.7 1.2 0.5 0.5 0.4	3.7 2.5 2.8 3.5 3.1 3.8 3.5 2.1 2.3 2.4 2.5 2.8 3.1	3.0 1.6 1.4 2.5 2.0 2.9 2.5 1.4 1.2 1.2 0.9 1.4 1.3 1.0	.0012 .0020 .0010 .0004 .0036 .0010 .0008 .0008 .0006 .0010 .0012 .0006 .0010	.0054 .0090 .0066 .0092 .0070 .0074 .0100 .0076 .0082 .0136	0 0 0 0 0 Trace 0 0 Trace Trace 0 0 0 Trace 0 0 0 Trace Trace 0 0 0 Trace Trace 0 0 0 Trace 0.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.20 0.18 0.16 0.17 0.17 0.20 0.20 0.21 0.20 0.21 0.21 0.20	1.3 1.3 1.2 1.2 1.5 1.2 1.1 1.2 1.3 1.0 1.3

PRESQUE ISLE.

There has been no change made in the source of supply of this town during the past two years. The supply is taken from Kennedy Brook, through an impounding reservoir, as long as this source will supply sufficient water. In case of inability of the Kennedy Brook supply to meet the demands water is pumped from Presque Isle Stream.

As was noted in the last report on this supply the water was very turbid after rains. The water company attributed this turbidity to wave action on the new walls of the reservoir, and so expected the condition to improve with time. On the contrary the condition became worse. Not only did heavy rainfall make the water too turbid to permit of its use, but evidence of sewage contamination of the water at such times began to appear, until we expected this water to become excessively turbid and to contain B. coli after each rainfall. It was thus evident that the condition was not one due, even in the main, to wave action in the reservoir, but was rather due to the entrance of polluted surface run-off from the surrounding land into the impounding reservoir.

During periods of heavy rainfall this water was essentially a polluted surface water, and unfit to drink. During dry periods it was essentially a ground water, very hard, but safe to drink. It was during this period of safety in the Kennedy Brook supply that the necessity would arise for the use of water from Presque Isle Stream.

The water from this stream, at the point where the intake is located, is unfit to drink. Physically it is also of poor quality owing to its high color and vegetable content.

No abatement of these conditions being obtained from the water company the people of the town of Presque Isle appealed to the Public Utilities Commission for remedy. The investigation, made by the engineer of the commission, found conditions as above described. The analyses of the water samples, taken during his investigation, were made at the laboratory. The commission decided against the water company, and ordered change to be made to a safe supply either through purification of the present supply or by use of an unpolluted source, stating in their opinion that a public water supply must not be safe to use most of the time, but all of the time.

PRESQUE ISLE.

		8	Арре	ARANCE.		on I	IDUE EVAR- TION.	Амм	ONIA.		ogen s		
8320 /	DATE OF COLLECTION,	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid	Nitrates.	Nitrites.	Chlorine.	Hardness
8320 8670 8726 9043 9145 9528 9798 9833 9835 9946 9948 10119 10280 10391	July 28, 1915 Oct. 11, 1915	2.2 0.2 0.1 0.2 0.4 13.2 4.4 5.6 6.0 7.1 0.2 1.4 0.2 0.2	Earthy 0 Rust 0 0 Earthy Earthy Earthy Earthy Earthy	Veg. Veg. Veg. Grassy Veg. Moldy Earthy Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	0.3 1.4 2.5 1.5 2.0 1.4 1.1 2.5 2.5 2.2 2.5 3.0 1.8 3.1 2.6 2.8	15.5 16.8 16.8 16.8 18.2 15.0 11.7 12.8 14.7 15.0 17.0 15.7	12.9 15.2 11.5 7.2 8.1 8.4 9.0 10.0 7.8 12.0 10.0	.0022 .0014 .0020 .0014 .0038 .0036 .0016 .0014 .0048 .0032 .0022 .0026 .0018 .0070 .0070 .0014 .0028 .0038	0056 0078 0084 0146 0098 0120 0054 0302 0158 0150 0158 0072 0372 0126 0174 0196	0.22 0.16 0.08 0.045 0 0.09 0.22 0.10 0.09 0.10 0.09 0.10 0.09 0.05 0.03	0.0008 Trace 0 Trace 0.0008 0.0003 0.0001 0.0001 Trace Trace Trace Trace Trace 0.0003 0.0001	0.52 0.60 0.60 0.25 0.80 0.74 0.30 0.40 0.38 0.53 0.54 0.63 0.77 0.70	9.1 11.6 12.5 6.8 9.8 13.5 4.1 5.5 6.8 6.8 8.6 12.0 14.0 11.5

RANGELEY.

-			Appea	RANCE.		ON I	IDUB EVAP- TION	Амм	ONIA.		OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8113 8400 8785 8821 9208 9398 9562 9855 10095 10352	Dec. 8, 1914 Jan. 21, 1915 April 21, 1915 June 6, 1915	0 0 0 0.3 0.2 0		Slight Veg. Slight Veg. 0 Veg. Veg. Veg. Veg. Veg. Veg.	1.9		2.0 2.0 1.6 1.2 1.9 2.8 1.8 2.3 1.0 1.5 1.1 2.0	.0022 .0012 .0006	.0134 .0100 .0098 .0106 .0152 .0080 .0064 .0076 .0090 .0098	Trace Trace 0 0 0 Trace 0.01 0 Trace Trace	0 0 0 0 0 Trace 0 0 0	0.09 0.09 0.06 0.04 0.06 0.10 0.04 0.03 0.03 0.05	1.1 1.0 1.2 1.3 1.2 1.5 1.0 0.8 0.9

RICHMOND.

The supply of this town is still taken from the Kennebec River, at a point where the water is not only polluted by the sewage of all of the towns on the upper river, but also by the sewage of Richmond itself.

As for many years past this water supply is unsafe to use for drinking purposes; but repeated warnings have had no effect in bringing about any change either in the source or purity of the water. It would appear that it will take a typhoid epidemic to bring this town to its senses in this matter, just as it has in the case of many other of our river towns.

DI	CII	MA	ND.

	DATE OF COLLECTION. 10 10 10 10 10 10 10 10 10 10 10 10 10		Appea	RANCB.		ON E	DUB VAP- PION .	Axor	ONIA.	Nite A			
Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8307 8830 9102 9624	April 13, 1914 July 22, 1914 Oct. 3, 1914 Feb. 8, 1915 April 5, 1915 July 29, 1915	0 0.2 0 0.3 0.1 0.6	0 0 0 0 0	Veg. Veg. Veg. Veg. Veg. Veg. Veg.	2.9 1.6 2.0 1.7 2.0 2.7 5.3 4.5	6.5 4.4 5.4 6.3 8.8 5.0 6.5 4.8	3.3 2.6 2.3 4.0 4.0 2.7 2.9 2.0	.0016 .0012 .0010	.0114 .0136 .0100	Trace 0 0 0.01 Trace Trace 0 Trace	0 0 0 Trace Trace Trace 0.0001	0.25 0.21 0.22 0.73 0.87 0.30 0.21 0.35	1.7 2.1 2.1 1.8 1.9

RUMFORD.

Up to November, 1914, the public water supply of this town came from the old water systems, owing to the failure to finish the construction work on the new system in contract time.

During this period the systems of the Union Construction Company and the old Water Company were joined and water taken from the surface supply of the former as far as possible, the water from the driven wells being used on the lower levels and when the surface supply proved too small.

The water from the Union Construction Company system was a safe and satisfactory water; that from the Rumford Falls Light & Water Company system was a safe water, but unsatisfactory on account of its high iron content. The mixture of the two waters gave a better water than that from the wells, but a poorer one than that from the surface supply.

In November, 1914, the first samples came to us from the new supply of the Rumford & Mexico Water District. The source of this supply is Zircon Brook, where a large impounding reservoir was formed by a dam. As was to be expected, while the pipe line was clearing up, and the upper layers of organic material in the reservoir site were passing into solution, the water contained considerable vegetable material in solution,

and carried considerable color. The condition has been improving, and the water should be a fine one in a short time.

The reservoir site and the drainage area of the brook are under sanitary control, and are free from pollution. Since the installation of the new system the water has been in safe and satisfactory condition to use for all domestic purposes.

RUMFORD.

			Аррва	RANCE.		ON I	idub Evap- Tion.	Амм	ONIA.		ogen B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor	Color.	Total.	Fixed.	Free	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8175 8446 8589 8861 9305 9401 9597 9918 10079 11416	Aug. 2, 1915 Nov. 3, 1915	0.6 0.9 0.1 1.8 0.2 0 0.7 0.7 0.4	Fe(O H)8 Earthy	Slight Slight Veg. Slight Moldy Veg. Veg. Veg. Grassy Slight Veg. Veg.	1.4 11.0 3.0 2.5 1.6 2.1 1.5	6.5 5.8 4.1	6.7 3.4 1.9 2.8 5.2 4.0 3.0 2.6 1.6 1.7 2.0 1.3 2.2	.0014 .0010 .0048 .0012 .0012 .0008 .0012 .0006 .0006	.0068 .0106 .0084 .0068 .0162 .0144 .0094 .0072 .0058	0.03 0.02 0 0.024 0 0.01 0 0 Trace	0 0 0 0.0003 0 0 0	0.59 0.20 0.07 0.07 0.52 0.22 0.20 0.06 0.08 0.04 0.04	2.0 0.8 1.1 4.0 2.2 2.1 1.0 0.8 1.2

SANFORD.

	33 Feb. 18, 1914		Аррва	RANCE.		on I	IDUE EVAP- TION.	Амм	ONIA.	Nite A	ogen 8		
Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8498 8877 9307 9632 9078 10415	Feb. 18, 1914 May 20, 1914 Aug. 3, 1914 Nov. 14, 1914 Feb. 9, 1915 May 12, 1915 Aug. 2, 1915 Nov. 17, 1915	00000	0 0 0 0	0 0 0 0 Slight 0 0 0		3.5 3.2 3.4 3.3 3.5 3.0 3.7 3.3	2.6 2.3 2.8 2.6 2.6 1.7 2.7	.0008 .0002 0 .0008 .0006 .0002 0	.0016 .0026 .0014 .0024 .0006	0.01 0.01 0 0 Trace Trace Trace 0.01	0 0 0 0 0	0.32 0.30 0.25 0.28 0.27 0.32 0.40 0.31	1.9 2.3 2.1 1.6 1.6 2.0

SEAL HARBOR.

	DATE OF COLLECTION. 56 Jan. 20, 1914 52 April 20, 1914		Аррва	RANCE.		RESION E		Амм	ONIA.		ogen S		
Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Aibummold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8352 8789 9238 9538	April 20, 1914 July 16, 1914 Oct. 27, 1914 Jan 19, 1915 April 20, 1915 July 19, 1915	00000	0 0 0 0 0 0 0	Slight Slight 0 0 0 Fishy Slight	0.4 0.4 0.2 0.2 0.3 0.2 0.3	3.2 2.4 3.0 2.5 3.0	2.4 2.1 1.3 2.1 1.4 1.7 1.6 1.6	.0014 .0002 .0008 .0010 .0008	.0070 .0070 .0070 .0062 .0066	O Trace O O O O O O Trace	0 0 0 0 0 0	0.70 0.62 0.63 0.67 0.67 0.66 0.60	1.0 1.0 1.3 1.0 1.0

SEARSPORT.

			Аррад	ARANCE.		ON I	IDUE EVAP- TION.	Амм	ONIA.		ROGEN AS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8197 8377 8706 8786 9186 9548 9817 10164 10390 10876 11107	Apr. 27, 1914 July 2, 1914 Oct. 19, 1915 Apr. 13, 1915 Apr. 13, 1915 June 21, 1915 July 26, 1915 Nov. 5, 1915	0000002	0 0 0 0 0 0 0 Rust 0 0	Slight Slight Grassy Grassy O Grassy Veg. Moldy Slight Grassy	0.5 0.7 0.4 0.4 0.2 0.2 1.0 1.6 0.2 0.2	2.3 2.6 3.0 2.7 3.0 3.0 2.6 3.1 3.5 2.7	1.5 1.7 1.0 2.3 1.8 2.1 1.1 1.0	.0004 .0004 .0014 .0014 .0012	0102 0100 0118 0114 0112 0166 0118 0108	0 Trace 0 0 0 0 0 0	0000000000	0.37 0.22 0.23 0.25 0.27 0.23 0.28 0.22 0.20	1.0 1.2 1.3 2.8 1.0 0.9 1.1

SEBAGO LAKE

	091 Jan. 27, 1914 121 May 5, 1914 1862 July 28, 1914 1857 Nov. 3, 1914		Арриа	BANCE.		on l	IDUE EVAP- TION.		ONIA.		OGEN		
Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albumimoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8421 8862 9257 9611	May 5, 1914 July 28, 1914 Nov. 3, 1914 Feb. 3, 1915 April 27, 1915 Aug. 7, 1915	0.1 0 0.2	0 0 0 0 0 0		0.5 1.2 1.2 1.6 2.1 2.4	2.5 2.0 3.5 3.0 2.7	1.5 1.5 1.2 2 9 1.4 1.6 0.8	.0012 .0014 .0014 .0010	.0092 .0100 .0076 .0088 .0122	0 0 0 Trace 0.01 0 0	O Trace O Trace O	0.17 0.17 0.20 0.20 0.25 0.18 0.16 0.17	0.9 1.3 1.5 1.5 0.8 1.2

SKOWHEGAN.

The water supplied by the Skowhegan Water Company has been in poor condition during the past two years and intestinal bacteria have at times been present in it. The water company has maintained its intake in the Kennebec River, and has used considerable of this polluted water in its supply.

Late in 1915 the water company reported that it had discovered a six inch connection with its main, of which it had previously had no knowledge, and that, with this discontinued, it should be able to meet the needs of its customers without the use of the river water.

However the reservoir supply of this company is, itself, of poor quality, and open to access of large amounts of surface drainage. Even with exclusion of the river water the supply of this company will be of very poor quality, and is likely to be polluted at any time. This supply is not considered safe, and especially with the connection with the river still in existence.

			Аррва	rance.		ON E	IDUE EVAP- TION.	Ами	ONIA.	Nite			
Number.	DATE OF COLLECTION	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8835 9265 1 9788 9899 10761	May 7 19; July 25, 19; Nov. 4, 19; April 9, 19 April 28, 19 Oct. 19, 19; Nov. 9, 19	14 1.8 14 1.6 14 0.9 15 0.8 15 1.0 15 0.1	O Earthy Veg. O Earthy Clay O Clay O	Slight Veg. Veg. Veg. Veg. Veg. Veg. Veg. Grassy	1.7 1.6 2.6 3.2 3.2 3.5 2.1 2.5 0.3	6.4 5.2 5.3 5.3 4.6 5.8 4.7 5.9 3.7	4.4 3.2 3.6 3.4 3.0 3.0 2.2 3.6 1.9	.0029 .0018 .0036 .0012	.0092	0.07 0.02 0.07 0.02 0.02 0.02 0.013 0.04	O O Trace O Trace Trace O O O	0.46 0.36 0.51 0.50 0.27 0.35 0.20 0.68 0.21	1.4 1.7 1.8 1.5 1.0 1.7

SKOWHEGAN

South Berwick.

The general condition of this supply has remained unchanged during the past two years. The supply of this company being limited they drove a number of new wells in the fall of 1915, all of which yielded a safe water, although some were high in iron. The company was advised to continue pumping these wells to see if there was to be any increase in the iron content

of the water, as this would unfit the water for domestic use. Since the November tests nothing has been heard from the company.

The water from this supply has been a safe one during the past two years, but one of high color and vegetable content, on account of the large amount of surface water that was used in it.

SOUTH BERWICK

	DATE OF COLLECTION. Jan 19, 1914 May 5, 1914		Аррва	RANCE.		RESI ON E	VAP-	Аммо	ONIA.	Nite			
Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Flxed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9416 8849 9249 9589 9838	May 5, 1914 July 27, 1914 Nov. 2, 1914 Feb. 1, 1915 April 19, 1915 Aug. 3, 1915	0.3 0.8 0.6 0.2 0.3 0.8	0 0 0 0 0	Veg. Veg. Grassy Veg. Veg. Veg. Veg.	7 (5.8 7.2 6.4 10.4 6.8	3.2 3.7 5.9 6.0 4.1 5.1	.0012 .0008 .0008 .0014 .0024	.0130	0 0 0 0.01 0 Trace	0 0 0 0 0 0	0.48 0.35 0.36 0.46 0.41 0.40 0.41 0.60	1.6 2.5 3.0 1.5 2.1 3.4

SOUTH FREEPORT

This village has a summer supply from a spring, located a quarter of a mile away from all sources of pollution. The analyses show the spring open to the entrance of surface wash, which should be excluded to be safe to use for drinking purposes.

SOUTH FREEPORT.

	DATE OF COLLECTION.		Appra	RANCE.		ON I	IDUM VAP- TION,	Аюн	ONIA.		ogen s		
Number.		Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminotd.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8382 8383 10405	April 27, 1914 April 27, 1914 Aug. 2, 1915	0	0 0 0	Slight 0 Slight	0.5	6.6	2.5 5.4 5.7	.0030 .0002 .0026	.0078 .0026 .0070	Trace 0.08 0.14	0 0 0.0007	0.28 0.57 0.80	3.2

SOUTH PARIS.

			Аррва	RANCE.		on I	idum Evap- Tion,	Ами	ONIA.		logen Ls		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8305 8769 9159 9498		0 0.3 0 0 0 0	0 0 0 0 0 0	Veg. Veg. Veg. Veg. Veg.	1.4 2.1 9.2	3.0 5.0 6.6 4.5 3.2 5.0	3.0 2.0 2.5 4.7 3.0 1.8 2.0	.0008 0008 .0012 .0004 .0006 .0016 .0006	.0092 .0072 .0138 .0080 .0258	0.01 0 0 Trace Trace 0 Trace	0 0 0 0 0 0	0.16 0.13 0.05 0.21 0.18 0.14 0.10 0.23	1.1 1.2 1.5 2.2 1.3

SOUTHWEST HARBOR.

			Арриа	Rance.		ON I	IDUE VAP- TION.	Азом	ONIA.	Nite	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitratos.	Nitrites.	Chlorine.	Hardness.
8524 8642 8778 9201 9458 9563 9810 10165	Dec. 20, 1914 Jan. 21, 1915 April 12, 1915 June 21, 1915 July 10, 1915 Oct. 13, 1915	0 0 0 0.2 0 0.2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Veg. Grassy Slight Sight O Slight Veg. Slight Slight Veg. Veg.	1.2 1.2 0.9 1.3 1.6 1.6 2.3 2.1 1.4	3.4 3.2 3.5 3.6 3.3 3.8 3.0 3.2	3.7 2.3 2.0 1.5 2.0 2.5 2.8 1.9 1.7 1.0 1.6	.0014 .0012 .0014 .0012 .0008 .0006 .0012 .0006 .0002	.0070 .0080 .0070 .0072 .0060 .0076 .0080	0 0 0 0 0 0 0 0 0 Trace	000000000000000000000000000000000000000	0 74 0 68 0 68 0 67 0 67 0 65 0 65 0 65 0 64 0 65 0 74	1.3 1.4 1.0 1.0 1.0 0.9 0.8 0.8

SPRINGVALE.

			Аррва	Bance.		ON E	DUE VAP- TION.	Аммо	INIA.		OGRIF LS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminotd.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8857 9185 9262 9567	May 5, 1914 July 28, 1914 Oct. 20, 1914 Nov. 4, 1914 Jan. 26, 1915 April 27, 1915 July 28, 1915	0 0.5 0 0 0 0 0	Veg. 0 0 0 0 0 0	Grassy Slight Grassy Grassy O Grassy Veg. Veg.	0.3 0.5 1.5 2.6 2.8 1.5 1.2 2.7	3.1 3.0 4.0 3.6 3.9 2.6 4.0	4.2 2.0 1.5 8.0 2.6 2.7 1.2 1.0	.0196 .0028 .0072	.0086 .0182 .0136 .0120	0 0 0 0 Trace 0 0 0 Trace	0 0 0 0 0 0 0 0 0	0.31 0.27 0.27 0.28 0.33 0.36 0.26 0.24 0.23	0.8 1.3 1.2 1.3 1.5 0.8 1.1

STONINGTON.

			Аррва	RANCE.		R.man ON E ORA?	DUB VAP- PION-	Ажи	ONIA.	NITE	OGEN B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness
8401 8790 9330 9618 9352 10380	Jan. 19, 1914 April 29, 1914 July 15, 1914 Nov. 18, 1914 Feb. 3, 1915 April 20, 1915 July 26, 1915 Oct. 18, 1915	0.6 0.2 0.3 0.2 0.3	0	Veg. Veg. Veg. Grassy Veg. Veg. Fishy Veg. & Grassy	19.0 8.2 7.5 7.0 8.5 8.8 16.0	6.9 6.4 6.5 8.0 6.4	3.3 2.5 4.1 3.8 2.7 2.0	.0028	.0274 .0270 .0262 .0316 .0250 .0362	Trace Trace 0 0 0 0 Trace	0 0 0 0	1.71 1.17 1.26 1.38 1.75 1.42 1.30	1.3 1.0 1.5 1.6 0.9 1.6

STRATTON.

			Appea	RANCE.		ON E	IDUE VAP- TION	Ами	ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8457 8988 9292 9649 9961 10528	Feb. 2, 1914 May 11, 1914 Aug. 18, 1914 Nov. 10, 1914 Feb. 12, 1915 May 10, 1915 Aug. 19, 1915 Nov. 22, 1915	1.0 0 0 0 0	0 Earthy 0 0 0 0 0	0 Slight 0 0 0 0	0 1.2 0.2 0.2 0 0.2 0.1 0.3	3.1 5.3 5.2 6.0 4.0 4.9	4.9 2.0 4.1 4.3 5.0 2.5 3.7 3.2	.0002 .0008 .0002 .0006	.0018 .0062 .0016 .0040 .0034 .0012 .0044	0	0 0 0 0 0002 0 0	0.07 0.05 0.04 0.09 0.04 0.06 0.10	1.0 2.5 3.9 2.3 2.0

STRONG.

			Арред	ARANCE.		ON I	IDUE EVAP- TION.	Аммо	ONIA.	NITE			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8632 8831 9195 9479 9593 9024 10126 10816	April 30, 1914 June 18, 1914 July 24, 1914 Oct. 21, 1914 Jan. 6, 1915 Feb. 1, 1915 April 14, 1915 June 14, 1915 Oct. 29, 1915 Dec. 15, 1915	0 0.4 0 0 0 0	0 0 0 0 0 0 0 0 Veg. & Rust	Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	3.5 2.8 2.6 6.0 3.8 3.4 8.5 3.8 6.5 6.0	3.8 4.6 4.6 6.0 6.1 5.9 3.5 5.7 7.5	1.9 2.4 2.1 3.3 4.0 3.9 1.4 2.0 2.2	.0008 .0022 .0008 .0014 .0020 .0008	.0106 .0150 .0170 .0202 .0126 .0108	Trace Trace 0 0 Trace Trace 0 Trace 0 Trace 0 Trace Trace	0 0 0 0 0 0 0 0 0 0 0 0 0	0.06 0.04 0.03 0.05 0.16 0.12 0.09 0.02 0.03	2.5 2.4 2.4 3.0 2.2 1.3 2.2 2.5

SULLIVAN HARBOR.

			Аррва	RANCE.		ו אכ	idub Evap- Tion.		ONIA.	Nite A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Flxed.	Free.	Albuminold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8833 8231 9865	May 22, 1914 July 25, 1914 Oct. 26, 1914 April 23, 1915 Aug. 16, 1915	0.4 0 C.4	0 Rust 0 0 0	Veg. Slight Veg. Veg. Veg.	3.5 1.6 3.3 8.2 2.2	1.9 3.0	1.4 1.6 1.6 1.4 1.2	.0012 .0006 .0020	.0042 .0088 .0092 .0086 .0104	0 0 0 0	0 0 0 0	0.39 0.38 0.41 0.38 1.00	0.8 1.0 1.0

UNION.

			Аррва	RANCE.		ON I	IDUB EVAP- TION.	Axoc	ONIA.		OGEN S		
Number.	DATE OF COLLECTION	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8460 9036 9264 9608 9947 10411	Feb. 4, 1914 May 12, 1914 New 3, 1914 Nov. 4, 1914 Feb. 3, 1915 May 6, 1915 Aug. 2, 1915 Nov. 15, 1915	0.6 0.3 0 0.2 0.2 0.2	0 0 0 0 0 0	Slight Grassy Veg. 0 Slight Slight Grassy 0	1.0 0 0.2 0 1.2 0.3	5.1 6.6 5.0 6.6 5.1 5.8	4.4 3.8 4.1 4.1 4.7 3.6 4.2	.0008 .0052 .0002 .0006 .0006 .0002 .0004	.0056 .0074 .0064 .0034 .0066 .0092	0 0 Trace 0 Trace Trace 0	0 0 0 0 0	0.38 0.40 0.36 0.34 0.51 0.40 0.39 0.48	1.3 3.3 3.3 3.0 1.3 2.5

VAN BUREN.

			Аррва	RANCE.		ON E	DUE CVAP- TION.	Ажи	ONIA.		OGEN LS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8353 8696 8749 9138 9457 9508 9803	Dec. 22, 1914 Jan. 11, 1915 April 12, 1915 June 11, 1915 July 14, 1915 Oct. 18, 1915	0.2 0 0 0 0 0.6	000000000000000000000000000000000000000	Veg. Veg. Slight Slight Slight Veg. Veg. Veg. Veg. Veg. Veg.	2.5 1.2	7.4 8.2 7.7 8.1 7.2 5.2 7.0 7.6	8.3 2.8 5.6 6.1 6.0 7.0 6.2 2.4 5.2 3.2 5.0 3.5	.0003 .0008 .0006 .0018 .0026 .0002 .0006 .0012 .0002 .0008	0052 0038 0064 0040 0112 0120 0072 0116 0054	0.02 0.01 0.01 0 0.03 0.02 0 Trace 0 0.01 0.03	000000000000000000000000000000000000000	0.08 0.10 0.04 0.05 0.08 0.14 0.10 0.04 0.14 0.02 0.11 0.08	2.0 4.0 5.0 6.0 5.1 4.6 2.5 4.3 4.1

VINALHAVEN.

			Аррва	RANCE.		ON I	IDUE EVAP-	Аю	ONIA.		logen Ls		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8389 8777 9232 9545		0.6 0.2 0.3 0.3 0.4 0.2	0	Veg. Slight Veg. Veg. Veg. Veg. Veg.	1.8 1.9 5.1 6.8 9.0 7.0	4.5 5.3 5.3 6.8	3.6 3.1 3.0 3.3 4.0 2.8 1.6 2.5	.0072 .0124 .0028 .0026 .0090 .0092 .0022 .0024	.0148 .0172 .0216 .0168 .0178	0 0 0 0 0 0 0 Trace	0 0 0 0 0 0	1.57 1.28 1.34 1.32 1.60 1.40 1.37 1.25	1.0 1.5 1.2 1.2

WALDOBORO.

			Appra	RANCE.		on E	IDUE VAP- TION,	Амм	ONIA.		logen ls		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
9203 9272 9336 9590 9916 10446	Aug. 17, 1914 Oct. 23, 1914 Nov. 8, 1914 Nov. 20, 1914 Feb. 1, 1915 May 1, 1915	0.4 0.7 1.3 0.7 1.5 0.2 0	0 0 0 0 Clay Clay 0 0	Slight Slight 0 0 0 Veg. Veg.	0 0.2 0.2 1.0 0.1 0.3 1.3 1.7	3.2 6 3 8.0 7.5 6.3 12.2 3.6 3.8 0.0	2.9 4.2 6.2 6.2 4.0 9.8 1.6 5.7	.0010 .0002 .0002 .0002 .0006	.0036 .0016 .0014 .0042 .0070 .0086	0 0 0 Trace Trace 0.04 0 Trace	0 0 0 Trace 0 0 0	0.45 0.35 0.41 0.40 0.43 0.45 0.37 0.30	3.4 2.2 3.0 2.4 3.4 0.8 1.1

WARREN.

			Аррва	RANCE.		ON I	idur Evap- Tion.	Ame	ONIA.		ROGEN LB		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nikrites.	Chlorine.	Hardness.
8449 8991 9244 9591 9598 9909 10412	Feb. 2, 1914 May 12, 1914 Aug. 18, 1914 Nov. 2, 1914 Feb. 1, 1915 Feb. 1, 1915 April 30, 1915 Aug. 2, 1915 Nov. 15, 1915	0 0 0.1 0.2 0.1	0 0 0 0 0 0	Moldy Veg. Veg. 0 Veg. Veg. Slight Veg.	1.0 0 2.0	4.1 8.1 9.6 6.0 6.2 5.0	3.0 2.4 6.6 7.6 3.5 3.4 2.3 2.8 6.3	.0002 .0008 .0012	.0140 .0058 .0026 .0104 .0148 .0058	0.01	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.52 0.48 0.51 0.51 0.55 0.55 0.11 0.49 0.54	1.4 3.4 3.3 2.1 1.9 1.5 2.4

WATERVILLE.

	_		Аррка	RANCE.		ON F	DUB VAP- FION.	Амм	ONIA.		ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8350 8571 8780 9150 9408 9432 9527 9801	Oct. 18, 1915	00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Grassy Grassy Veg. Grassy Veg. Slight 0 0 Slight Slight Grassy Grassy	0.5 0.9 0.8 1.2 0.9 0.3 0.3 1.3 0.3 1.1 0.3	3.0 3.0 4.1 4.1 3.7 4.7 4.0 4.1 3.8 3.3 4.3 3.7	2.0 2.2 2.6 1.6 3.0 2.6 2.8 2.3 1.9 2.1 1.7	.0020 .0008 .0012 .0026 .0006 .0008 .0020 .0020 .0006 .0018	.0094 .0130 .0112 .0110 .0096 .0130 .0134	Trace 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 Trace	0.27 0.21 0.22 0.21 0.17 0.22 0.21 0.25 0.21 0.22 0.26 0.24 0.21	1.9 2.4 1.4 2.4 1.8 1.6 2.0 1.5 1.6 2.2

WEST SULLIVAN

			Арри	ARANCE.		ON	EVAP- LTION.	Амм	ONIA.	NITR			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8435 8820 9230 9652 9864 10403	Feb. 20, 1914 May 7, 1914 July 22, 1914 Oct. 26, 1914 Feb. 15, 1915 April 23, 1915 July 31, 1915 Nov. 5, 1915	0 0 0.1 0.2 0	0 0 0 0 0	Slight 0 0 0 0 Slight 0 0	0 0.1 0.2 0 1.3 1.1 0	6.4 5.6 6.3 7.2 6.7 6.8 6.8 8.2	5.3 4.0 5.2 6.3 5.5 4.4 4.4 5.5	.0028 .0064 .0008 0 .0066 .0008 .0002	.0022 .0064 .0044 .0068 .0048	Trace Trace 0 0.01 Trace C.01 Trace Trace	0 0 0 0 0 0	0.27 0.48 0.49 0.50 0.57 0.52 0.52	2.7 3.2 5.2 2.7 3.1 4.0

WEST SUMNER.

The Ryerson and Chandler Spring systems have maintained their usual condition during the past two years. Both of these systems take their water through lead pipes, and both waters have acted on the pipes to some extent. If the lead pipes were removed both of these waters would be first-class ones, but the presence of lead in them renders them unsafe to use for drinking at this time.

WEST SUMNER-CHANDLER SPRING.

			Аррва	RANCE.		ON I	IDITE EVAP- TION.	Азля	ONIA.		OFFER S			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.	Lead.
8476 8906 9299 9615 9929 10445	Feb. 3, 1914 May 17, 1914 Aug. 4, 1914 Nov. 9, 1914 Feb. 2, 1915 May 3, 1915 Aug. 9, 1915 Nov. 16, 1915	0 0 0 0 0.1	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0	3.2 3.5 3.6 3.4 3.6 3.8	2.6 2.7 2.2 3.2 3.1 2.6 2.1 2.3	.0004 .0006 .0018	.0042	0.01 0.01 0 0 Trace 0.01 Trace 0	0 0 0 0 0 0.0001 0	0.15 0.03 0.09 0.09 0.10 0.10 0.08 0.11	2.0 1.7 2.9 3.0 1.9 2.0	0.08 0.09 0.10 0.06 0.05 0.07 0.08 0.12

WEST_SUMNER-RYERSON SPRING.

			Арриа	RANCE.		ON I	IDUB EVAP- PION.	Asov	ionia.		eogen Ls			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites	Chlorine.	Hardness.	Lead.
8477 8905 9301 9923 10447	Feb. 3, 1914 May 17, 1914 Aug. 4, 1914 Nov. 9, 1914 May 2, 1915 Aug. 9, 1915 Nov. 16, 1915	0000	0 0 0 0 0 0	0	0 0 0.1 0 0.3	4.9 7.3 5.8 4.1 6.1	5.3 4.2 4.0 4.9 2.7 5.0 4.5	.0004 .0002 .0002 .0002 .0002 .0008	.0054 .0062 .0048 .0058	Trace 0.01 0.35 0.02 0.03 Trace 0.02	0.0001 0 0 0 0	0.035 0.29 0.10 0.04	2.7 3.4 4.5 2.0 3.8	0.02 0.05 0.04 0.05 0.04 0.05

WILTON.

			Аррра	RANCE.		ON E	IDUE VAP- TION.	Азпе	ONIA.	Nite	ogen S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8336 8602 8815 9167 9422 9534 9804 10115 10287	July 12, 1915 Oct. 11, 1915	000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Grassy Grassy Slight 0 0 Grassy Grassy Woody Slight 0 Slight	0.1 0.3 0.1 1.3 0.2 1.4 0	4.0 3.8 3.1 3.8	3.9 2.9 2.6 1.8 2.6 3.0 2.2 2.2 1.8 1.2 2.0	.0012 .0006 .0014 .0006 .0006 .0012 .0032 .0006 .0024 .0002 .0008	.0098 .0070 .0102 .0104 .0102 .0140 .0124 .0082 .0078 .0128	Trace 0 0 0 0 0 0 0 0 0 0 0 0 0 Trace	000000000000000000000000000000000000000	0.11 0.10 0.08 0.09 0.12 0.12 0.12 0.08 0.09 0.13 0.12 0.09	1.5 1.3 1.7 2.2 2.2 1.5 1.5 1.7

WINTER HARBOR.

		· · · ·	Арры	RANCE		ON I	IDUE VAP- TION,		ONIA.		ROGEN AS		
Number.	DATE OF CULLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8775 9225 9550	April 25, 1914 July 11, 1914 Oct. 28, 1914 Jan. 20, 1915 April 20, 1915 July 18, 1915	0.3 0 0.2 0 0.3 0.3	0 0 0 Veg. 0 Veg.	Veg. Veg. Veg. Veg. Veg.	4.0 4.0 3.1 3.5 5.0 8.6	3.9 4.3 4.1 4.5 4.6 4.5	3.1 1.9 1.9 2.5 2.0 2.9 1.3 1.5	.0020 .0146 .0054 .0028 .0016	.0142 .0160 .0252 .0140 .0128	0 0 0 0 0 0 0 Trace	0 0 0 0 0 Trace	1.10 0.78 0.79 0.85 0.94 0.91 0.70 0.71	1.2 1.6 1.2 1.3 1.3

WINTERPORT.

			Арри	ARANCE.		ON E	DUB VAP- TION.		ionia.		ROGEN AS		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8737 9142 9506	April 12, 1914 July 8, 1914 Oct. 10, 1914 Jan. 11, 1915 April 6, 1915 July 13, 1915	1.6 0 0 0.8 0.4 0.4	10	Slight	1.0 0.3 0.3 0.9 1.6 1.7	4.4 9.1 8.7 8.0 7.6 7.2	7.7 6.8 5.7 3.7	.0020 .0016 .0014 .0006 .0002 .0016 .0024 .0008	.0108 .0100 .0090 .0082 .0058 .0118	0.05 Trace 0.03 0.02 0.04 0.03 0.03	0 0 0 0 0 Trace 0.0001	0.37 0.29 0.37 0.41 0.45 0.45 0.31 0.41	5.4 6.0 5.5 4.3 0.4

WINTHROP-CARLETON SYSTEM.

			Арриа	RANCE.		ON E	IDUB EVAP- TION,		ONIA.		ROGIN LB		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8529 8900 9342	Nov. 24, 1914 Feb. 22, 1915 June 24, 1915	00000	0 0 0 0 0	Moldy Slight 0 0 Moldy 0	0.3 0 0 0 0 0	12.6 14.6 13.4 15.4	12.6 8.8 12.8 12.0 10.0	.0008	0024 0014 0008 0028 0020	0.06 0.12 0.08 0.09 9.12 0.14 0.09	0 Trace 0 0 0 0	0.52 0.96 1.14 1.10 0.86 1.15 1.39	7.4 6.0 7.5 6.8 6.8

WINTHROP-GALE SYSTEM.

			Арри	RANCE.		ON I	idum Evap- Tion	Амм	ONIA.	NITE	OGBN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummold.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8535 8898 9345 9659	Mar. 26, 1914 May 27, 1914 Aug. 1, 1914 Nov. 24, 1914 Feb. 18, 1915 June 24, 1915 Dec. 8, 1915	0 0 0 0.8	0 0 0 0 Rust 0	Slight Slight Veg. Slight Veg. Veg. Veg.	0.3 1.0 1.1 1.2 3.0 1.2 0.6	6.0	2.7 2.0 1.6 3.0 3.8 2.3 4.0	.0006 .0008 .0008 .0012 .0109 .0012	.0112 .0122 .0086 .0290 .0118	0 0 0 0 0.01 0	0 0 0 0 Trace 0	0.25 0.37 0.20 0.25 0.51 0.21 0.49	1.9 2.0 3.0 1.9

WINTHROP-JONES SYSTEM.

			Арриа	rance.		ON I	IDUB VAP- TION	Амм	ONTA.	NITE	ogen B		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albummotd.	Nitrates.	Nitrites.	Chlorine.	Hardness
8526 8901 9344	Mar. 26, 1914 May 27, 1914 Aug. 1, 1914 Nov. 24, 1914 June 24, 1915 Dec. 7, 1915	0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0.01	5.0 6.0 5.4 5.5	5.0 4.1 4.7 5.0 4.5 4.3	.0002	.0014 .0030 .0012 .0014 .0020 .0028	0 0 0 0 0 0.01	0 0 0 0	0.16 0.17 0.16 0.17 0.16 0.14	2.7 2.8 2.7 3.2

WINTHROP-MAY SYSTEM.

-			Appna	RANCE.		on I	IDUR VAP- PION.	Амм	ONIA.	Nitr A			
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Flxed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8263 8527 8899 11018	Mar. 26, 1914 May 27, 1914 Aug. 1, 1914 Dec. 8, 1914	0	0 0 0	0 0 0	0 0 0	3.0 3.1 4.0 3.5	2.1 2.3 3.1 2.4		.0048 .0038 .0022 .0038	0	9 0 0 0.0001	0.15 0.14 0.16 0.19	1.6

WOODLAND.

The supply of this village is still taken from the St. Croix River. As noted in my last report this water has become of poor and dangerous quality. The plans of the water company for purification of the supply have not been put into

effect, so that the water is still unsafe to use for drinking purposes.

WOODLAND.

			Аррва	RANCE.		RESI ON E		Амм	ONIA.		OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sed iment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8304 8708 8816 8934 8935 9103 9499 9762 10566	Jan. 5, 1914 April 11, 1914 July 4, 1914 July 20, 1914 Aug. 10, 1914 Aug. 10, 1914 Oct. 3, 1914 Jan. 9, 1915 April 3, 1915 Sept. 1, 1915 Sept. 30, 1915	0.1 0.3 0.3 0 0 0 0 0.3	0 0 0 0 0 0 0 0 0 0 Earthy	Veg. Veg. Veg. Veg. Veg. Veg. Veg. Veg.	4.0 4.5 3.0 0.3 1.4 1.8 1.9 2.6 8.0 0.2 0.4	3.7 3.2 4.7 3.9 3.4 3.5 4.2 3.6 10.5	2.5 1.6	.0012 .0014 .0196 .0070 .0008 .0012 .0012 .0012	.0158 .0112 .0136 .0226 .0134 .0132 .0108 .0132 .0140 .0052 .0158	0000	Trace 0 0 0 0 0 0 0 0 0 Trace	0.17 0.17 0.12 0.035 0.07 0.09 0.16 0.20 0.35 0.15	1.6 1.4 1.4 2.0 2.0 1.5 1.6 1.5 2.1

YAR MOUTH.

			Аррва	RANCE.		ON I	IDUE VAP- TION	Avne	ONIA.		OGEN S		
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Fixed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8885 9273 9621 9915 10897	Jan. 31, 1914 May 9, 1914 Aug. 1, 1914 Nov. 7, 1914 Feb. 6, 1915 May 1, 1915 Nov. 13, 1915 Dec. 22, 1915	0.7 0.2 0 0.2 0.5 0.5	0 0 0 0 0 0 0	Veg. Veg. Slight O Grassy	0.1 0.1 0.1 0 0.3 0.1	6.3 6.7 9.7 6.8 6.2 6.2	5.0 4.6 5.4 7.3 5.0 4.3 4.1 3.3	.0008 0 0006 .0010 .0008	.0036 .0058 .0046 .0016 .0022 .0050 .0018 .0032	0.09 0.07 0.09 0.32 0.11 0.13 0.08 0.13	0 Trace Trace 0.0002 0 Trace 0.0001 Trace	0.33 0.36 0.35 0.95 0.38 0.40 0.42 0.45	2.7 3.0 4.5 3.0 2.0 2.8

YORK.

			Арра	RESIDUE ON EVAP-ORATION.					Nett				
Number.	DATE OF COLLECTION.	Turbidity.	Sediment.	Odor.	Color.	Total.	Flxed.	Free.	Albuminoid.	Nitrates.	Nitrites.	Chlorine.	Hardness.
8447 8742 9209 9650 9863 10350	Jan. 29, 1914 May 11, 1914 July 5, 1914 Oct. 24, 1914 Feb. 10, 1915 April 20, 1915 July 17, 1915 Dec. 14, 1915	0 0 0 0.1	0 0 0 0 0 0	Grassy Grassy Slight 0 Veg. Veg. Veg.	1.9 1.4 1.3 1.3 1.8 3.3	3.0 3.1 4.0 4.0 2.9 3.0	2.0 1.8 1.4 1.7 2.5 1.2 1.0	.0012 .0086 .0012 .0046 .0014	.0104 .0120 .0088 .0100 .0114 .0118 .0139 .0148	0 0 0 0 0 0 0 Trace	0 0 0 Trace 0 0	0.53 0.44 0.49 0.46 0.56 0.55 0.52 0.48	0.9 0.8 1.2 0.9 1.0

MISCELLANEOUS CHEMICAL WORK.

During the past two years but little chemical work has been done, outside of the routine water work. We have examined 37 samples of water for lead, where no other feature of quality was requested by the sender. The sediment from the Gardiner Water District test filters has been examined, as has the flaky material from the seal pails. One sample of wall paper has been examined for arsenic. 3 samples of sediment from water pipes have been examined. We have also had samples of sediment from a dead-end in the Lewiston water system to determine the nature of the vegetable material; and similar material from a dead-end in the system of the Mousam Water Company, where it was thought that dirt and foreign material had been added to an exhibition specimen of this water.

A sample of fire extinguisher was also examined for the State Land Agent, and found to be common bicarbonate of soda, with a slight mixture of normal carbonate.

In all 46 miscellaneous samples have been examined during the past years.

The chemical work of the laboratory during the past two years has thus consisted of the analysis of 242 dairy samples; of 3,165 water samples for full sanitary analysis, and 46 miscellaneous analyses.—a total of 3,453 analyses.

BACTERIOLOGICAL WORK.

The lines of bacteriological work have remained the same as during the past four years.

During the period, covered by this report we have examined 3,652 specimen of sputum for the tubercule bacillus: 2,977 throat swabs for diphtheria: 1,062 blood smears for typhoid; 180 pus smears for the gonococcus, and 15 miscellaneous samples.

The 15 miscellaneous bacterial examinations consisted of the examination of 4 water samples for B. coli: 2 samples of milk for typhoid bacilli: 2 samples of milk for diphtheria bacilli: 1 sample of milk for streptococci: 1 sample of feces for the tubercule bacillus: 1 sample of feces for hemorrhagic bacilli: 1 sample of blood for sterility: 1 specimen of pus from a sore for the tubercule bacillus: 1 sample of spinal fluid

for streptococci and gonococci, and I sample of urethral discharge for the tubercule bacillus.

The 3,652 sputum specimens came from 259 different towns and cities: the 2,977 diphtheria specimens from 192 different places, and the 1,062 typhoid specimens from 163 different localities; showing the state-wide use that is made of the laboratory.

In addition to the above bacteriological work the sanitary water analyses add much bacteriological work. Each of the 3,165 water samples were examined in three dilutions for the presumptive B. coli tests, and all of the samples were plates on gelatine, while the samples from the public water supplies, 1,191 in number, were also plated on agar.

The routine bacteriological examinations for diagnostic purposes have thus numbered 7,886 during the past two years, and the bacteriological examinations in connection with the water analyses have added 13,851 examinations to this,— a total of 21,737 bacteriological examinations. In the following cost tabulation I am including only the diagnostic examinations; the bacteriological work in connection with the water analyses being included in the cost of that work.

There has been a drop of 148 specimens in the tuberculosis work over the preceding period; a drop of 143 specimens in the diphtheria work; an increase of 78 specimens in the typhoid work, and an increase of 102 specimens in the gonococcus work. The bacteriological work has thus been practically stationary during this period.

The reasons for this condition are plain to those in touch with the situation. Portland was formerly our largest contributor to tuberculosis work. Two years ago a bacteriological laboratory was established by the city board of health. As a result our Portland work has practically disappeared. During the past two years there have been no institutional epidemics of diphtheria in the State, as during the several years past, and so no mass of work has come from this source.

The tabulations in the following pages will give in detail the nature of the work along all lines during this period of report.

The following gives the summary of the amount of work done by the laboratory during the past two years; its actual cost to the State, and a comparison with the cost of such work

if done at the regular commercial rates. Contrary to most reports the cost of sanitary water analysis is set at \$10.00 instead of \$25.00, as the latter figure more nearly approaches the actual cost of the work. The other figures are practically fixed figures for such work at commercial laboratories.

3652	examinations of sputum	@ \$2 00	\$ 7,304 00
2977	" " swabs	@ \$2 00	5,954 00
1062	" " blood	@ \$2 00	2,124 00
180	" " pus	@ \$2 00	360 00
15	Misc. bacteriological exam	inations	30 00
3165	sanitary water analyses	@ \$10 oo	31,650 00
242	milk analyses	@ \$5 ∞	1,210 00
46	Misc. analyses	@ \$5 ∞	230 00
11339	To	otal	\$48,862 00

Appropriation for the laboratory \$11,000.

Saving over the commercial cost of the work \$37,862 00 The actual cost of an analysis, lumping all of the different items together has thus been \$0.96 against a minimum commercial charge of \$2.00 for any single item of work.

In concluding this report I would call attention of the physicians to one or two points in connection with the meaning of the reports on the various bacteriological specimens which are returned to them. It would hardly seem as though such points needed any mention but rather vexatious experience has shown that they do.

Complaints have come to us because we have not found tubercule bacilli in specimens of sputum from persons where the physician has made a clinical diagnosis of tuberculosis, and some physicians have considered the laboratory results as of no account because, on some occasions, they do not confirm their diagnosis. In one case that has come to our attention the physician wrote of the matter to another physician who stated that he had had similar experience and had stopped sending specimens to the laboratory. As a matter of fact this latter physician had never sent a specimen to the laboratory during the whole twelve years of its existence, although we had supplied him with stains for his own use.

It is well known that, even in advanced cases of tuberculosis, there is not constant elimination of the bacilli. It is only when there is active break-down of diseased tissue that they appear in the sputum. In addition it is hopeless to expect to find tubercule bacilli in a specimen of nasal mucus when the case is supposed to be pulmonary tuberculosis. The number of specimens we receive that are not from the lung or even throat, but simply snuffed down from the nose is surprising.

In addition the physician is to remember that the laboratory report is in no way a report on any single clinical aspect of his case. It is a report, pure and simple, on the material that has been sent to us. If no tubercule bacilli are present in the specimen we have received the physician gets a negative report on that particular specimen. He should understand that a single negative report in no way affects the standing of his clinical diagnosis, although the finding of the tubercule bacillus in a case diagnosed as bronchitis does overthrow his diagnosis. In order to avoid any chance for misunderstanding a note, fully explaining this condition, is printed on the report sheet. In spite of all this we get complaints for not confirming the physician's diagnosis on a single specimen.

In the matter of diphtheria examinations we labor under a disadvantage in the large size of the State and the resulting length of time that is required for the specimens to reach us from some sections, notably from the extreme north and eastern sections of the State. It is not uncommon for 36 hours to elapse between the collection of the specimen and its receipt at the laboratory. It is thus often 48 hours before report can be made on these specimens.

Not only is this delay in the report of vital importance, but the length of time the specimen is in transit is of as vital importance to the laboratory in obtaining accurate growths from it.

Our diphtheria work is at its height during the cold winter months. The alternate exposure to heat and cold, to which the specimen is exposed during its period of transit, is far more fatal to the diphtheria bacillus than would be a continued exposure to either the maximum heat or the minimum cold. During these months of extreme cold it is not to be wondered at if many of our specimens from northern Aroostook and eastern Washington county give us no growths, or, at best, those from which the diphtheria bacillus is absent even in the face of a positive clinical diagnosis.

There are two ways of meeting this difficulty. One is to establish sectional bacteriological laboratories in different sections of the State, so that the long period of transit will be avoided. The other is to supply the physician with blood serum media and swabs, so that he may plant the culture just as soon as it is taken, which is the time for him to obtain the best results. If this were done, and the physician would use his vest pocket as an incubator until the specimen was placed in the mail, the culture would get such a start before going into the mails that the laboratory could probably make direct examination of it on its arrival, instead of having to incubate it for 12 hours before such an examination is made. This method would save both time of incubation, and would render it almost sure that whatever was inoculated on the serum would reach us without death of the organisms.

This would, of course, put the entire responsibility on the physician, as he would not only take the swab but would also make the culture. The laboratory would be only the examining agent.

The establishment of sectional laboratories is out of the question with our present appropriation, as it would mean maintaining bacteriologists at such points, as well as equipment. The use of blood serum media in place of swabs is also expensive. It involves not only a large outlay for media and equipment, but the expense of actually maintaining the outfits would be considerable. Each outfit would have to be dated, and track kept of it, in order to call it back before the media had spoiled, and this recalled media would have to be replaced by fresh media. This method of meeting the difficulty is under serious consideration by the laboratory, and we may put the plan into operation in the fall of 1916 on a small scale, and, if results warrant, make it state wide in its scope.

We have, ever since the establishment of the laboratory, suffered considerable loss of outfits, which we could not trace. It has developed by chance that the physicians are making use of the outfits for various mailing purposes, using them as mailing cases for any kind of material, and sent anywhere. We wish to again protest against such use of the property of the State. It involves a serious expense to the laboratory ir replacing the outfits thus taken.



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ANALYSES OF SAMPLES OF WATER-Continued.

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73.70	15.5	1.1 0.2	1.3 0.9	1.3	1.3 0.2	4.1	4.1	upply 1.2 0.4	1.2 0.6	ed well 5.5 1.0	1.6 1.1	0.0	12.0	0.50			~ · ·	1.00	1.5	6.6	5.2		2.7	supply 5.5 3	0
73.70	15.5	1.1 0.2	1.3 0.9	1.3	1.3 0.2	4.1	4.1	upply 1.2 0.4	1.2 0.6	ed well 5.5 1.0	1.6 1.1	0.0	12.0	0.50			~ · ·	1.00	1.5	6.6	5.2		2.7	supply 5.5 3	000
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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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14.0 0.8 11y	01y 0.4	4-1	000	0.63	4.7		200	110	5.0	4.4	4.00	2.9		20.0		200	1.7	6.0		1000		12.0	14.0	0:0	-6	110	1.3			*	80 c	
14.0 0.8 11y	01y 0.4	4-1	000	0.63	4.7		200	110	5.0	4.4	4.00	2.9		20.0		200	1.7	6.0		1000		12.0	14.0	0:0	-6	110	1.3			*	80 c	
14.0 0.8 11y	01y 0.4	4-1	000	0.63	4.7		200	110	5.0	4.4	4.00	2.9		20.0		200	1.7	6.0		1000		12.0	14.0	0:0	-6	110	1.3			*	80 c	arborPublic supply
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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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	Well.	0.4	0.0		000	99.	30		0.000	0	•
	Public supply		0.0	0.	8.0	0.45	0		0.0012	00	0
	Well	ص بر بن بر	. 4	7.00	8=	200	000		0.0000	0.08	Trace
	Public supply	1.0	7.5	2	0.21	000	0		0.0018	0	0
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	Spring		0.0	-:	4.0	0.13	00		0.000	00	0
	Public supply	- e	1.6		300	3.5	7		0000	0	•
	Drilled well	. 4	10	0	5.0	1.15	0.008		0.0014	0	•
	Well	8	20	0	0.05	25.83	0.0010		0.0006	0.00	0
	Public supply	60,0		0	0.01	200	-		> 0		5
	Spring	40	7 -	-0	0.0	0.18	Trace		0.008	Ö	5
	Spring	11.0	6	0.1	0.03	25	Trace		0.0008	0.0038	0
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Belfast	893	Winthrop	Well. Spring	1.0	1.6	9.0	0.0	0.0	0.0005		0.0008	0.0082	0.07
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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.		Source.	Public supply Public supply Well Well Drilled well Public supply Public supply Well Public supply Well Spring Spri
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ANALYSES OF SAMPLES OF WATER—Continued.

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Well 13.0 9.0 Clatern 1.5 0.5 D.5 D.5 D.5 D.5 D.5 D.5 D.5 D.5 D.5 D	Junction Lake 15 05 05 05 05 05 05 05 05 05 05 05 05 05	Public supply 1.5 0.3 Well Well 7.5 0.6 Well 7.5 0.6 Well 7.5 0.6 Well 9.0 0.6	Ce   Ce   Ce   Ce   Ce   Ce   Ce   Ce	Public supply   1.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0   0.0	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Public supply	0.0

ANALYSES OF SAMPLES OF WATER-Continued.

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Аимона	F166.	00000000000000000000000000000000000000
	Nitrate.	0.55 0.00 0.00 0.00 0.00 0.20 0.20 0.20
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.bed.	Oxygen consum	000000100010000000000000000000000000000
	Color.	0-0
	Àlkalinity.	11414161066191101160110000011 1441410106191101160110000011
	Hardness.	21614623152418181818111111168
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	301000010100408080810 5000400000000000000000000000000000000
Public supply. Spring.  Spring.  Spring.  Public supply.	Fucine supply Spring Public supply
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995443 995443 995446 99554 99555 99555 99559 9959 995	995667 99567 99567 9957 9957 9957 9958 9958 9958 9958 995

ANALYSES OF SAMPLES OF WATER-Continued.

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OF		Color.	
SAMPLES		Alkalinity.	0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-
		Hardness.	
ANALISES OF		Source.	Public supply
-		Number.	9587 Alfred. 9588 Mexico. 9589 South Berwick. 9580 Warten. 9591 Warten. 9591 Castine. 9594 East Livermore. 9594 East Livermore. 9594 East Livermore. 9595 Stanning. 9596 Kears Felly. 9596 Kears Felly. 9596 Kears Felly. 9596 Maryer. 9599 Warren. 9599 Warren. 9599 M. Vernon. 9600 Calais. 9600 Allais. 9600 Hilbis. 9607 Pallips. 9607 Pallips. 9607 Pallips. 9609 Banover. 9608 Union. 9608 Warren. 9609 Hanover. 9609 Hanover. 9609 Hanover. 9609 Hanover. 9609 Harrington.
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401-14884-104-1488-1488-1488-1488-148-148-148-148-14
Spring  Spring
West Summer   Station

### ANALYSES OF SAMPLES OF WATER-Continued.

					.bea.				Ажиомта.	MIA.	
Town on City.	Вотиси.	.зеопрляН	Alkalinity.	Color.	Oxagen consu	Chlorine.	.esitsiN	Nitrate.	Free.	Albuminoid.	Lead.
9660 Turner. 9661 Farmington. 9662 Greenville Junction 9663 Greenville Junction 9664 Buxon. 9665 Norway. 9665 Norway. 9666 Norway I ake. 9666 Bar Mills. 9667 Monson. 9670 Monson. 9671 Monson. 9673 Winthrop. 9673 Winthrop. 9673 Winthrop. 9674 Calias. 9675 Kennebunk. 9677 Kennebunk. 9677 Kennebunk. 9677 Kennebunk.	Well Well Reservoir Reservoir Drilled well Well Well Well Well Public supply		8103634558311500008610 8777850008713048767000	00000000000000000000000000000000000000	00000000000000000000000000000000000000	20000000000000000000000000000000000000	0.0003 0.0003 0.0003 0.0003 0.0003 0.0005 0.0005 0.0005 0.0005 1.500	000000000000000000000000000000000000000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	00000000000000000000000000000000000000	
	Well Well Well Public supply Spring. Drilled well		9494648 9606040		0.0250	20.258	0.0002		0.0008 0.00014 0.0002 0.0002	0.0038 0.0038 0.0038 0.0038 0.0058	000000

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######################################	eer 1.6	10011	Mell 2.0 Spring 1.9 Spring 2.7 Spring 2.7 Well 14.0	2000 0000 000 0000	17.0 17.0 17.0 10.0 10.0 10.0 10.0 10.0	4040F2111110	
######################################	eer 1.6	10011	Mell 2.0 Spring 1.9 Spring 2.7 Spring 2.7 Well 14.0	2000 0000 000 0000	17.0 17.0 17.0 10.0 10.0 10.0 10.0 10.0	Drilled well 5.4 Well Well 6.8 Well 7.1 Well 7.1 Drilled well 12.5 Public supply 1.8 Well Well 1.6 Spring 1.6	

ANALYSES OF SAMPLES OF WATER-Continued.

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Охуgеп оопянтесь.		4444688888888888888888888888888444
Color.		444F 466F-10
Alkalinity.		000144000000000000000000000000000000000
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ANALYSES OF SAMPLES OF WATER—Continued.

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	Color.	
	Alkalinity.	0150110001100000140000001000
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20.00 20.00	22.10	10000	11.2	1.3	1.6	0.9	3.0	2.7	0.00	000	2.4	1.0	1.0	10.5	1.3	8.2	1.2	9.5	4.1 1.7
20.00 20.00	22.10	10000	11.2	1.3	1.6	0.9	3.0	2.7	0.00	10.1	2.4	1.0	1.0	10.5	1.3	8.2	1.2	9.5	4.1 1.7
20.00 20.00	22.10	10000	11.2	1.3	1.6	0.9	3.0	2.7	0.00	10.1	2.4	1.0	1.0	10.5	1.3	8.2	1.2	9.5	4.1 1.7
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e Public supply 5.5 4.0 0.4 Public supply 6.5 4.5 4.5 Public supply 6.5 4.5 Public supply 1.2 1.0 Public supply 1.2 1.0	k Public supply 2.1 0.8 Well Supply 2.1 1.2 Trbor Public supply 1.0 0.7	Public supply 1.3 1.2 Public supply 2.3 1.6 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 3.7 Public supply	Public Supply	Or. Public supply 1.3 1.1 Spring 1.0	Spring 1.3 0.7 Spring 1.6 0.7	Public supply 1.0 0.5 Public supply 0.9 0.4	Public supply 1.0 0.9 Public supply 3.0 1.9	Well 2.7 1.0	Aqueduct. 1.0 0.6 Public supply 1.0 0.6	10.1	ek 2.4 1.0 Public supply 2.4 1.0	Public supply 1.0 0.6	rbor 1.0 0.3	10.5	1.3	8.2	1.2	9.5	4.1 1.7
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Public supply 5.5 4.0 Public supply 1.0 0.4 Public supply 6.5 4.5 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.2 1.0 Public supply 1.3 Public s	k Public supply 2.1 0.8 Well Supply 2.1 1.2 Trbor Public supply 1.0 0.7	Public supply 1.3 1.2 Public supply 2.3 1.6 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 2.6 1.7 Public supply 3.7 Public supply	Harbor Proble supply 1.2 1.0 Spring 1.0 0.8	Or. Public supply 1.3 1.1 Spring 1.0	Spring 1.3 0.7 Spring 1.6 0.7	Public supply 1.0 0.5 Public supply 0.9 0.4	Public supply 1.0 0.9 Public supply 3.0 1.9	Well 2.7 1.0	Aqueduct. 1.0 0.6 Public supply 1.0 0.6	Brooks	ook Public supply 2.4 1.0 Public supply 1.2 0.3	Public supply 1.0 0.6	rbor 1.0 0.3	Public supply 3.4 2.5 Drilled well 10.5 0.3	Public supply	Drilled well. 8.2 7.0	Public supply	Well 9.5 2.0 Public sumply 1.2 1.0	Well 4.1 1.7
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ANALYSES OF SAMPLES OF WATER—Continued.

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411107	k Public supply 2.7 Well 6.8 Well 6.8 Pring 9 4.1 Public supply 6.1	Public supply 0.8 Aucduct	Berooks. Public supply 2.7 West Summer. Public supply 2.0 Danforth. Public supply 4.0 Monson. Public supply 2.0 Berwick. Public supply 1.6 Brownville. Public supply 1.6	Henderson Publis supply 1.9	Lake Lake 1.3 Kennebunk Public supply 1.3 Readfield Well 5.7 Readfield Well 5.7 Readfield Will 5.7 Wiscasset Spring 6.8 Wiscasset Spring 6.8 Wiscasset Spring 2.7 Auburn Well 9.5 Well Well 2.7 Well Well 2.7 Well 2.7 Well 2.7 Well 2.7 Well 3.6 Well 3.6 Well 3.6 Well 3.7 Well 3.7	Well
411107	k Public supply 2.7 Well 6.8 Well 6.8 Pring 9 4.1 Public supply 6.1	Public supply 0.8 Public supply 0.8 Aqueduct, 2.7 Aqueduct, 1.0 Well 1.3 Well 4.1	Public supply 2 7 Public supply 2 0 Public supply 2 0 Public supply 4 0 Public supply 2 0 Public supply 2 0 Public supply 1 0 Publ	Public supply 1.9	Lake Lake 1.3 1.3 1.3 1.4 1.5 1.	Well

ANALYSES OF SAMPLES OF WATER—Continued.

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Аммонть.	Free.	0.000000000000000000000000000000000000
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	Nitrite.	0.0012 0.0003 1.0003 0.0003 0.0003 0.0003 0.0003 0.0003 0.0003
	Chlorine.	85255548864811200000000000000000000000000000000000
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	Color.	000000400400000000000000000000000000000
	Alkalinity.	%0F4% %
	жепрлаН.	11-000000-4004400000-000000000000000000
	Source.	Drilled well. Public supply Well Spring Public supply Spring Spring Spring Spring Spring Spring Spring Well Well Well Well Well Well Well Wel
	Town or City.	Presque Isle South Berwick South Berwick Caratur Berwick Stowhegan Skowhegan Skowerstle Monmouth Monmouth Monmouth Monmouth Monmouth Monmouth Monwestle Newskale Newskal
	Митрет.	99950 99951 99952 99953 99953 99959 99959 99961 99961 99963 99963 99964 99964 99967 99967 99973 99974 99974 99974 99974 99974

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ANALYSES OF SAMPLES OF WATER-Continued.

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Аммонта.	Free.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Nitrate.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	Nitrite.	0.0001 178.0001 178.0000 0.0004 0.0001
	Chlorine.	88888888888888888888888888888888888888
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	Color.	00000000000000000000000000000000000000
	Alkalinity.	4185111019080018408111081060041
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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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	Number.	10241	10243	10245	10246 F	10247	10249	10250	10252	10253	10255	10256	10257	10259	10260	10261	10062	10964	10265	10266	10267	TOROGO

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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	натфиев.	18.72	8.8	7 44	52.6	23	12.96	27.36	7.34	5.61	20.16	1.72	15.84	18.72	30.67	1.87	11.52	3.62 2.02
	Source.	Well	Well	Drilled well	Well	Well	Public supply	Drilled well	Well	Spring	Drilled well	Spring	Well	Drilled well	Well	Public supply	Well	Spring.
	Тоwи ов Стт.	Kennebunkport	Andover	Hillside. West Poland	Sidney.	East Hiram	Northern Maine Junction	Washington Greenville Junction	Morrill	Charleston	Waterville	Canton	Peak's Island	Littlejohn Island	land			
	Number.	10529	0531	0532	0534	0536	0538	10539	10541	10543	0544	453	10546 10547	10548	10554	1055	1055	1055

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ANALYSES OF SAMPLES OF WATER-Continued.

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Number.	Town on City.	Source.	Hardness.	Alkalinity.	Color.	Охубеп сопяш	Chlorine.	Nitrite.	Nitrate.	Free.	.bionimudlA	.basI	
-			8	-		3	60	-		0800	900	-	
0601	Boothbay.	Well	3.2	4, 4 5 rc	9.0	5=	88	Trace	0	98	00.0	•	•
603	Dixfield	Spring	1.29	.0		8	0.23	Trace		0.008	0.0030	0	_
909	Bingham	Well	2.0	3.5		0.13	1.10	0.0004	9.	0600	0.002	00	
3605	Union.	Spring	07 to	9.4		36	2.4	000	- e	0.0022	00.0	- c	_
9000	Diddelord Foot	Well	4.4	10		000	0.25	Trace	90	0.00	0.0028	0.03	
1608	South Montville	Well	2.44	6.0		80.0	0.55	Trace	0	0.0008	0.0070	0	
6090	Van Buren.	Well	6.91	3.7		0.13	0.75	0.0004	0.19	0.0088	0.0020	9.00	-
	Brunswick.	Well	5.61	0.0		0.33	3.4	0800		9980	222	-	
1190	Brunswick.	Well	4.6	96		32	200	•	ع د		300	ě	
0612	Wayne	Well	280	20	1.	58	0.18	Trace	0	88	4	8	-
614	Atlantic	Well	8	4.6		0.17	1.78	Trace	0	9000.0	0.0100	0	
615		Well	2.59	8.0	0.9	C 03	0.15	0	0	0.0008	0.0068	0	
9190		Well	2.44		0.1	83.0	0.15	0.0001	Trace	000	000	0	
9617	Spruce Head	Well	14.4	9	200	350	3		176		200	•	
819	Old Town	Well	13.04	0.0	200	39	4.4	10.00g	200		0048	•	
0010	Strong	Well	* 4	- c	•	35	35	0000	7.7	0014	0005		
0200		d oli	200	10	-	0.05	32	Trace		0.0002	0.0052	0	
1000	Palfant	Well	2 18	200	0	0.05	08	Trace	8	0.0004	0.0044	0	
1693	Enfield	Spring	3.02	9.0	.0	8.0	0.70	0.0003	0.14	0	0.0020	0	
1624	Phillips	Spring	3.31	8.0	0	90.0	0.10	Trace	0	0.000	0.0034	.08 0.08	
1625	Livermore	Well	14.4	8 .4	1.7	3.0	0.35	Trace	0	0.0020	0.0072	٥(
9626	Searsmont.	Well	8	1.5	7.	0.35	0.25	0.0001	Trace	0.00	0.0180	>	
9627	Bingham	Spring	4.89	90	4.	0.18	0.45	Page 1	38	80.0	0.0112	>	
9628	.Bingham	Spring	4.82	200	0	38	0.20	38	70.0	200		•	
0629	Мавол	Spring.	8.31	- #··	*:0	95.0	07.0	3	>	1 P 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3	•	

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ANALYSES OF SAMPLES OF WATER—Continued.

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OF.		Color.	00000000000000000000000000000000000000
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ANALYSES OF SAMPLES OF WATER-Continued.

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	Alkalinity.	01-11-11-1200 7224-14-8-10-4-10-21-120-7 8-121-0-1-129-7-120-0-220-0-1-10-4-20-4-20-7-20-7-20-7-20-7-20-7-20-7-2
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	Town on City.	Rockland Woodland Woodland Woodland Waterville Belfant Jakland Boothbay Kallowell Yan Buren Stonnikon Presque isle Presque isle Presque isle Presque isle Ryinthrop New Harbor New Harbor New Harbor New Harbor Skowhegan Old Town Old Town Winter Harbor Winter Harbor Winter Harbor Kinalhaven Old Town Winter Harbor
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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER—Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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ANALYSES OF SAMPLES OF WATER-Continued.

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	Number	11040	11041	11043	11044	11046	11047	11048	11050	11051	11052	11054	11055	11055	11058	11059	11060	11061	11062	11064	11065	11066	11067

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Well Well Well	D-illed well	Spring Spring 14	Contable Supply Contable Supring Contable Supring Contable Supring Contable Supply Contabl
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ANALYSES OF SAMPLES OF WATER—Concluded.

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TUBERCULOSIS—Jan. 1, 1914, to Dec. 31, 1915. (Inclusive)

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CITY OR TOWN.	Male.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	+	·.	Total.
Albion. Alfred. Amherst Andover Anson. Appleton. Aspleton. Aspleton. Aspleton. Ashland. Atlantic Auburn. Augusta Baileyville Bangor Bath Belgrade Berwick Bethel Biddeford. Biddeford. Biddeford. Bidgham Blaine Bolsters Mills Boothbay Harbor Bowdoinham Bradford Brewer Bridgewater Bridgevater Bri	100 3 3 5 5 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02 04 43 10 00 5 56 90 06 84 64 12 00 02 36 5 60 22 11 14 4 14 5 6 3 3 0 11 9 22 1 3 3 5 4 2 8 2 12 2 3 3 10 11 10 11 4 11 12 9 11 3 4 3 3 3 2 2 2 4 4 1 11	233007 788224 1154115 104416 1187740 112235 11355 119922 12222 19964 16642 166	20 20 1 1 1 20 0 1 4 7 7 2 1 4 1 0 0 2 2 29 1 0 4	23 3 0 6 6 5 5 1 1 1 1 1 1 2 2 2 1 7 3 5 6 6 4 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00021000015564010811100014660031101100011700366002200000011302220510000	00 00 00 13 11 4 4 4 4 4 00 00 00 12 2 11 11 00 00 00 11 12 10 00 00 00 11 11 12 11 11 11 11 11 11 11 11 11 11	21	000032210005343376600100000000000000000000000000000000	001100000110000000000000000000000000000	0020000280111210000101000000000000130000100000000	2 3 3 3 7 8 8 2 4 4 1 1 5 107 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TUBERCULOSIS—Continued.

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CITY OR TOWN.	Male.	Female.	Total.	+	0.	Male.	Female.	Male.	Female.	÷	0.	Total.
East Machias. East Millinocket Easton Eastport. Eliot Elisworth Enfield Fairfield Fairfield Farmington Fort Fairfield Foxcroft Franklin Freeport Friendship Freeport Friendship Fryeburg Garden City, Cuba. Gardiner. Garland Georgetown Gray Greeneville Greenville Junction Gray Greenville Junction Guilford Hallowell Hampden Harrington Hartland Hebron Hartland Hebron Hartland Hebron Hartland Hebron Kalls Isle au Haut Island Jay Jefferson Jonesport Kenduskeag Kennebunk Kennebunk Kennebunk Kennebunk Kittery Kitt	5 1 0 0 3 2 2 7 6 3 1 1 1 1 1 0 6 6 1 7 7 5 2 0 0 8 1 1 1 1 1 1 0 6 6 1 1 7 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 2 3 3 6 3 1 1 5 1 2 2 0 4 1 2 3 3 6 3 1 1 5 1 2 2 0 4 1 2 2 3 3 6 3 1 1 1 1 2 2 1 4 1 3 3 3 3 5 1 1 1 0 0 0 4 2 5 2 3 1 6 1 1 1 0 0 4 7 7 3 5 1 2 2 2 2 3 1 6 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 1 2 1 2 1 4 1 3 3 3 3 5 1 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 1 2 1 2 1 4 1 3 3 3 3 5 1 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 1 2 1 2 1 4 1 3 3 3 3 5 1 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 1 2 1 2 1 4 1 3 3 3 3 5 1 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 1 2 1 2 1 4 1 3 3 3 3 5 1 1 1 1 0 0 4 7 7 3 5 1 2 2 2 3 1 6 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1	6 6 3 3 2 2 2 1 3 1 4 4 6 7 7 5 2 1 1 1 1 5 7 7 5 2 1 2 1 1 1 1 1 2 1 1 7 7 0 1 1 2 1 1 2 2 1 1 1 1 1 2 2 1 2 2 1 1 1 1 1 2 2 1 3 2 1 1 2 2 1 1 1 1	.00124191142200430012255000133301633000100210000118204020601100211000211000211000211000011820402060110021100001182040011000011820040011000001100000110000000000	6 33 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000112114131200300021213300113000010330000003303000040100023330	00111020501110020101100000112200002000330000011000011290200200200820	510911557088941533200009893122000744000622000003422411100114410880091191132640661654	1 1 2 2 3 2 0 4 8 3 1 3 9 0 0 0 5 5 0 0 1 2 3 3 1 2 0 2 2 3 3 1 2 0 2 2 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 4 1 9 0 0 4 6 3 5 2 3 1 2 0 2 3 3 4 0 1 0 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 2 1 1 1 4 1 9 2 0 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 9 2 0 1 1 2 1 3 3 3 4 0 1 1 0 0 0 3 9 2 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000100100000000000000000000000000000000	000100000300000310000000020000000000000	6 3 2 2 7 7 2 3 1 1 5 6 7 7 2 3 1 1 5 6 7 6 2 3 3 2 1 5 5 1 1 1 1 1 1 2 2 3 3 2 2 1 2 2 1 1 1 1 2 2 3 3 2 2 1 2 2 1 2 2 1 1 1 1

TUBERCULOSIS—Continued.

	Nı	mber		Resu	lts.	Posi	tive.	Nega	tive.	No.	slip.	
CITY OR TOWN.	Male.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	÷	0.	Total.
Mars Hill Mechanic Falls Milbridge Millinocket Millinocket Millinocket Millinocket Millinocket Millinocket Monmouth Monroe Monson Monticello Mount Vernon Naples National Home New Gloucester New Portland New Sweden New Portland New Sweden New Sweden New Horten Norridgewock North Anson North Berwick Northeast Harbor North New Portland North New Portland North Waterford North Waterford North Waterford North Whitefield North Whitefield Oakland Ogunquit Old Orehard Old Town Orland Orrors Island Orrors Island Oxford Passadumkeag Patten Pemaquid Penobscot Phillips Phippsburg Prittsfield Plymouth Portland Pownal Presque Isle Princeton Prospect Harbor Rangeley Readfield Red Beach Richmond Rockport Rockwood Rumford Sabattus Saco Salem Sanford Sangerville	456636620032248822200064412214421055715535110022144415509912633032811112230333281111	18265533361332200011333100551512233700001199799233420180060044110011000110004111333336644007700211180771	133 9 5 1 1 1 5 3 3 9 7 1 1 2 2 2 1 1 3 3 9 5 5 1 3 7 9 2 2 1 1 4 3 3 1 9 9 2 1 1 4 3 3 8 8 2 2 5 1 1 9 1 1 6 6 6 6 6 1 6 6 6 6 6 6 6 6 6	1 0 0 2 2 2 2 1 1 1 1 0 0 1	12 8 7	00006000017000030000302011110020101010301032020106040002500200702000	01022100000001111101300220000141312100201011000008042020200311060000000000000000000000000000	4563020323122200334121101104285661425070111221308120121510227212430261111	17243236132000222004121217000005666113201605033100110033122101344402760015180771	000000000000000000000000000000000000000	200200000000000000000000000000000000000	713 811 111 5 3 3 9 7 10 2 3 3 9 5 5 1 18 3 2 11 12 12 3 3 9 5 5 1 18 3 2 11 12 12 2 8 8 2 2 5 1 19 1 19 2 2 5 8 8 1 2 3 7 9 1 2 6 1 10 10 1 5 4 3 16 1 9 2

TUBERCULOSIS—Concluded.

	N	umbe	er.	Res	ults.	Posi	ive.	Nega	tive.	No.	slip.	
CITY OR TOWN.	Mafe.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	÷	0.	Total.
Scarboro Searsmont Searsmont Searsmort Sedgwick Sherman Shiloh Sidney Skinner Skowhegan Smyrna Mills Solon South Berwick South Rewer South Paris South Portland South Windham Springfield Springvale Standish Steuben Stonington Stratton Strong Sullivan Surry Swan's Island Tennuts Harbor Thomation Thomation Thomatic Topeham Turner Union Unity Van Buren Vinalnaven Waterford Waterville Wells West Borok West Buxton West Jonesport West Pownal West Sullivan West Pownal West Pownal West Pownal West Pownal West Pownal West Pownal West Sullivan West Pownal West Sullivan West Pownal West Sullivan West Pownal West Sullivan West Sullivan West Pownal West Sullivan West Pownal West Sullivan West Sull	1066830011020683301102201180334162206833011022001112005220083301100822113220001133922441111	1 2 2 4 2 1 1 1 0 0 0 1 1 4 4 2 2 5 1 1 1 1 5 3 2 4 4 1 1 1 1 0 0 1 1 6 6 0 0 1 1 4 4 3 2 2 5 1 1 1 1 5 3 2 4 1 1 1 1 3 2 2 4 1 1 1 1 3 3 2 4 1 1 1 1 5 3 2 4 1 1 1 1 1 3 3 2 4 1 1 1 1 1 3 3 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	288 288 281 11 141 17 22 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 466 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00111000113773220011100050000101229916001111110022021100	22977331111 443062633388440220221421165133522142117051122177716633311217777663331	000010000000000000000000000000000000000	0011001000230000111422200000011000200001001001001000002100100	1066200012024142001001001001001001001001001001001001001	123111110244122010018003110115211131143250114541800022C440111220449442220	000000000000000000000000000000000000000	000000000000000000000000000000000000000	2 2 2 10 8 4 4 2 1 1 1 5 6 4 0 6 2 8 3 3 4 4 1 1 1 1 8 2 2 2 1 3 7 7 1 1 9 2 2 1 2 2 1 6 5 2 2 3 4 4 1 3 1 6 6 2 2 2 9 4 1 3 1 7 7 1 9 6 4 3 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Total for 1914-1915 tuberculosis	1 .692	1 ,830	3 ,522	764	2 ,75 8	415	349	1 ,277	1 ,481	34	96	3 ,602

DIPHTHERIA—Jan. 1, 1914, to Dec. 31, 1915. (Inclusive)

	 		•									
•	N ₁	umbe	r.	Rest	ılts.	Posi	tive.	Nega	tive	No.	elip.	
CITY OR TOWN.	Male.	Female.	Total.	+	0.	Male.	Female.	Male.	Female.	÷	·o	Total.
Albion. Alfred Anson Ashland Atlantic Auburn. Augusta Bangor Bar Hiarbor Bar Hiarbor Bar Hills Belfast Belgrade Bideford Bingham Blaine Bluehill Boothbay Harbor Bowdoinham Bradfond Brower Bridgewater Bridgewater Bridgewater Bridgewater Bridgewater Bridgewater Bridgewater Bridgewater Bridgewater Brower Canias Camben Carabou Carmel Carabou Carmel Contains Canden Charleston Charleston Corinna Corinna Corinna Corinna Corinna Corinna Camberland Milla Damariscotta Damforth Dennysville Dexter Dixfield East Parsonsfield East Parsonsfield East Parsonsfield East Parsonsfield Farmington Fort Fairfield Fort Kent Framklin Fryeburg Gardiner Gorham	0 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10064 115224 224 23 00 2 1 5 2 2 2 2 2 2 0 0 2 1 1 1 1 1 2 0 2 2 7 0 0 3 1 1 4 4 2 2 3 8 8 1 2 2 0 2 3 3 3 0 0 1 1 5 1 3 3 7 5 5 3 3 2 2 6 1 1 1 5 3 3 2 2 6 1 1 1 1 2 0 2 2 7 0 3 1 4 4 2 2 3 8 8 1 2 2 0 2 3 3 3 0 1 1 5 3 3 2 2 6 1 1 1 1 2 0 2 2 7 0 3 1 1 1 1 1 2 3 3 3 1 1 1 5 3 3 2 2 6 1 1 1 1 1 2 0 2 2 3 3 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 6 8 8 1 4 2 7 7 7 2 3 2 2 1 5 5 5 5 4 4 1 2 2 2 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 2 6 6 6 6 2 6	00020453030800401011010030200000000102112003330000330000100020064	11 6 6 6 19 374 88 1 1 1 1 6 6 6 2 2 2 2 2 1 1 2 1 2 2 4 1 2 3 1 5 5 5 4 4 1 2 1 2 2 2 2 2 1 1 1 1 1 1 1 2 3 3 3 4 7 8 6 2 2 2 4 6 2 2 3 0 7	0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0001022010100000001000000110000033100000011000020044	01 03 00 16 178 22 192 4 0 0 0 0 1 11 1 1 3 0 6 6 1 2 2 8 2 2 0 0 0 1 1 1 2 1 5 1 0 0 1 2 6 3 1 1 1 1 3 0 6 1 2 8 2 0 0 1 1 1 2 1 5 1 0 0 1 2 6 3 1 1 1 1 3 0 6 1 2 8 2 0 0 1 1 1 2 1 5 1 0 0 1 1 1 1 1 3 0 6 1 2 1 1 1 1 3 0 6 1 1 2 1 1 1 1 3 0 6 1 1 2 1 1 1 1 3 0 6 1 1 1 1 1 1 3 0 6 1 1 1 1 1 1 3 0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 66 3 1 1 1 3 1 9 0 1 2 1 1 1 1 2 2 2 2 2 2 2 0 0 0 1 1 1 1	000001600000000000000000000000000000000	00000000000000000000000000000000000000	1 1 6 8 8 1 5 4 7 8 9 1 5 1 4 2 5 5 5 4 4 1 4 2 2 2 1 1 7 7 7 2 2 3 2 2 1 2 5 5 5 4 4 1 4 2 2 2 2 2 3 3 3 6 7 9 6 6 2 2 2 6 6 0 2 2 8 3 1 1

DIPHTHERIA—Continued.

	N	umbe	r.	Resu	ılts.	Posi	tive.	Nega	tive.	No.	slip.	
CITY OR TOWN.	Male.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	+	0.	Total.
Gray. Greene. Greene. Greenville. Greenville. Greenville. Greenville. Greenville. Greenville. Greenville. Hallowell Hampden Highlands. Hartison. Hartland. Hebron. Houlton Joekman Station. Jefferson. Jonesport Kennebunk Kennebunkport. Kezar Falls. Kingfield. Kingfield. Kittery Kittery Point. Leeds. Leviston. Limestone. Liwestone. Liwermore Falls. Litchfield Livermore. Livermore Falls. Lubee Machias. MacMahan Island. Madison Mapleton. Mar Hill. Mechanic Falls. Mexico. Millinocket. Millo Millinocket. Millo Millinocket. Millo Monson. Monticello Mt. Vernon Norlidewock North Anson Northeast Harbor North Anson North Berwick North Harbor North Windham Norway. Oakfield Oakland Ogunquit Old Town Orono Oxford. Penessot Penessot Phillips Phippsburg Pittsfield. Portland.	1 2 3 3 0 1 1 5 1 0 0 1 1 8 4 4 4 1 0 0 1 1 8 4 4 4 2 2 2 2 3 3 1 1 2 4 4 2 2 2 3 3 1 1 2 2 1 1 0 0 0 1 1 1 1 2 2 1 1 0 0 0 0	2004111200231633200231772227700712331151122227132100655111177066517066506060606060606060606060606060606060	327712233433618 228341174429911522861152286511533699213226511532812834117442299115228611522865115336992132265112218	24 0 0 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0	32271122121112334888221333488822111223308842211664223308842217773352253332248112632221207777335225333224811263222177773352253332248112632221777733522533322481126322217777335225333224811263263217266411222177773352253332248112632217777335225333224811263221777733522533322481122777773352253332248112277773352253332248112277777335225333224811227777733522533322481122777773352253332248112277777335225333224811227777733522533322481122777773352253332248112277777335225333224811227777733522533322481122777773352253332248112277777777777777777777777777777777	00000100030906301000000000010000101108012010100000020100070100000011	00000000000000000000000000000000000000	1123301141001503201548832000111900003112443022411021112110111666115220001110557	20 4 1 1 17 0 2 2 3 13 3 16 8 1 6 5 6 6 6 16 0 2 2 1 3 3 2 6 3 3 1 4 4 2 2 2 2 3 7 1 3 2 2 6 3 3 3 1 4 1 2 2 2 2 3 7 1 3 2 10 0 6 6 4 1 1 1 1 1 1 5 1 0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000000000000000000000000000000000000000		327122391233417738617742291262411152286134350153363822112833417738617742291265286134350153363222212233

DIPHTHERIA—Concluded.

	N	umbe	r.	Rest	ults.	Posi	tive.	Negs	tive.	No	slip.	
CITY OR TOWN.	Male.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	+	o o	Total.
Presque Isle. Rangeley. Rangeley. Richmond. Ridlonville. Robbinston Rockland Rockport Rumford. Sabattus. Saco. Searsport Sedgwick Scherman Sidney. Skinner. Skowbegan. Smyrna Mills Solon. South Berwick South Paris. South Portland. South Windham Springfield Springvale Stetson Stonington Stratton Strong. Swan's Island Tenant's Harbor Thomaston. Thomatick Topshan Turner Union Van Buren Vanceboro. Vinalhaven. Waldoboro Washburn. Waterford. Waterville West Harpswell. West Paris West Poland West Paris West Poland West Polan	12 0 1 1 1 0 4 1 1 1 1 0 1 1 1 1 0 3 1 1 1 2 2 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1	21 3 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 3 3 3 3 1 7 3 6 1 1 3 4 2 2 4 3 2 0 6 7 3 4 1 1 1 1 1 1 1 1 2 2 2 8 5 2 2 5 3 8 2 2 1 8 3 3 1 1 4 1 6 5 5 3 3 2 2 5 3 8 2 2 1 8 3 3 1 1 4 1 6 5 5 3 3 3 2 2 5 5 8 2 2 1 8 3 3 1 1 4 1 6 5 5 3 3 3 2 2 5 5 8 2 2 1 8 3 3 1 1 4 1 6 5 5 3 3 3 2 2 5 5 8 2 2 1 8 3 3 1 1 4 1 6 5 5 3 3 3 2 2 5 5 8 2 2 1 8 3 3 1 1 4 1 6 5 5 3 3 3 2 5 5 5 6 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7	2000000047012021004940001000000010101005053400001011001000000	31 3 3 3 1 7 3 6 1 9 22 1 22 22 23 1 0 6 3 3 2 5 7 1 1 1 1 7 0 1 1 1 1 2 2 5 3 3 2 1 8 5 9 2 1 8 2 1 1 3 1 6 5 3 3 3 2 1 8 5 9 2 1 8 2 1 1 3 1 6 5 3 3 3 2 1 8 5 9 2 1 8 2 1 3 1 6 5 3 3 3 2 1 8 5 9 2 1 8 2 1 3 1 6 5 3 3 3 2 1 8 5 9 2 1 8 2 1 3 1 6 5 3 3 3 2 1 8 5 9 2 1 8 2 1 3 1 6 5 3 3 3 2 1 8 5 9 2 1 8 2 1 3 1 6 5 3 3 3 2 1 7 3 1 8 5 9 2 1 8 2 1 8 2 1 3 1 8 5 9 2 1 8 2 1 8 2 1 3 1 8 5 9 2 1 8 2	000000000000000000000000000000000000000	200000004200201100044400001000020100040000400001000010000100000000	12 0 1 1 1 0 0 3 1 1 1 1 2 1 1 9 1 2 0 4 0 0 1 1 4 1 1 1 1 1 0 0 3 1 1 1 1 2 2 7 0 0 3 1 7 0 6 8 3 0 0 1 4 4 0 0 0 7 0 1 2 0 2 2 1 0 2 2 2 2 2 2 2 2 2 2 2 2	19 3 2 2 1 1 3 2 2 3 1 1 6 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 3 3 1 2 2 2 1 6 0 1 0 0 2 3 3 1 4 3 3 0 0 0 0 6 0 0 0 0 1 1 2 2 2 1 6 0 1 0 2 2 4 1 1 0 1 1 1 4 4 4 3 3 1 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1	000000000000000000000000000000000000000	100000000100000010000000000000000000000	34 2 34 2 24 32 1 6 7 35 1 1 1 1 1 1 1 1 1 2 2 8 5 1 2 2 7 38 2 2 4 2 6 5 2 1 8 3 1 1 4 1 6 5 3 4 4 2 2 4 3 2 1 6 7 3 5 1 1 1 1 1 1 1 1 1 1 2 2 8 5 1 2 2 7 3 8 2 4 2 6 5 2 1 8 3 1 1 4 1 6 5 3 4 4 2 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
years	,256	,615	.871	386	.485	164	. 222	1 ,032	1 ,393	17	89	2 ,977

TYPHOID FEVER—Jan. 1, 1914, to Dec. 31, 1915. (Inclusive)

	N	umbe	r.	Rest	ults.	Posi	tive.	Nega	tive.	No.	slip.	
CITY OR TOWN.	Male.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	÷	0	Total.
Albion Alfred Anson Appleton Atlantic Anson Appleton Atlantic Auburn Augusta Bangor Bar Harbor Bath Belfast Biddeford Bingham Boothbay Harbor Bowdoinham Brewer Bridgon Bryant's Pond Buckfield Bucksport Calais Camden Carribou Carmel Carribou Carmel Cherryfield Clinton Cornish Cumberland Mills Damariscotta Danforth Dennysville Dexter, Dixfield East Hiram East Millinocket East Hiram East Millinocket East Hiram East Millinocket Ensatport Ellsworth Ellsworth Frinkild Frinkiln Freeport Franklin Freeport Gorham Georgetown Center Gorham Greenville Guilford Hallowell Hampden Harrison Hebron Houlton Jonesport Kennebunk Kennebunk	1 0 0 0 0 2 7 3 1 3 3 2 2 4 4 7 0 0 0 1 2 2 2 2 0 0 1 1 1 1 5 2 2 5 1 1 4 4 1 0 0 0 2 2 1 1 1 6 6 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	211211311639 888341812220574421630 111111223231351122211941112464116224151224	10102377422100010111008221000001100922411180000000311009311012130000	1 1 1 1 1 1 8 5 6 5 5 6 6 5 6 6 6 2 4 8 7 1 1 3 1 1 1 1 1 1 1 1 2 1 1 0 4 6 4 4 2 2 8 1 1 9 1 1 1 1 1 1 2 2 2 4 6 6 1 1 1 2 2 2 2 4 6 6 1 1 1 2 2 2 2 2 1 1 2 2 2 2 2 4 6 1 1 1 2 2 2 2 4 6 6 1 1 1 2 2 2 4 6 6 1 1 1 2 2 2 2 4 6 6 1 1 1 2 2 2 2 2 2 1 2 2 2 4 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	000012311095200311000100062200000106021110500000002110006310001020000	101143223552110000000000000000000000000000000	100015822333270710210114040810001110214131419500211142109!003039112	0111032834481160160000350024111011010210162312003012	000002000000000000000000000000000000000	0000070011100010200000000000001111002200000000	2 1 2 1 3 1 1 7 2 9 8 8 6 9 8 8 1 1 2 2 2 2 2 2 1 5 9 4 4 2 6 6 8 4 2 5 5 1 5 1 2 2 4 2 6 8 4 1 6 2 5 5 5 1 5 1 2 4 5 6 6 6 7 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7

TYPHOID FEVER—Continued.

	Number.		Res	ults.	Posi	tive.	Nega	tive.	No.	slip.		
CITY OR TOWN.	Mule.	Female.	Total.	+	0.	Male.	Female.	Male.	Female.	÷	0.	Total.
Lewiston. Limerick. Limington Lincoln. Lincolnville Center. Lisbon Falls. Litchfield Livermore Falls. Lubec. Machias Madison Mapleton Mars Hill Mechanic Falls. Milbridge Milo Monmouth. Monson. Monticello Morrill Notridgewock Northeast Harbor North Whitefield. Northeast Harbor North Windham North Whitefield Oskland Ogunquit Old Orchard Old Town Orono Oxford. Palmyra Patten Pemaquid Phippsburgh Plymouth Portland. Presque Isle Princeton Rangeley Readfield Red Beach Richmond Rockport Rumford Sabattus Saco. Seal Harbor Searsport Sherman Sidney Skinner Skowhegan Smyrna Mills Solon South Berwick South Berwick South Berewer South Eliot	10 10 3 11 11 11 11 11 11 11 11 11 11 11 11 1	1321110203303500015022010108520014101010065515000160302031C0201235	233114131160055117112243006112123221111133141155110012233900511711224113335	5000010110022400011000110001100011422220000362040400111000012	183141215038111613340102123303365122722110012109333100122370113111311323	200000000000000000000000000000000000000	30 00 00 00 00 10 00 00 00 10 11 11 00 00	81031012015111113010111132062441142201012852201100735500120111210100	10 2 2 1 1 1 1 1 1 2 2 2 3 3 3 3 0 0 0 0 1 1 1 3 3 0 0 0 1 1 1 3 3 0 0 1 1 1 3 3 0 0 1 1 1 3 3 3 0 0 1 1 1 3 3 3 3	400000000000000000000000000000000000000	(00000012000000000000122000000000000000	33 3 1 1 4 1 3 3 1 6 1 1 7 7 1 2 2 6 6 2 1 1 1 3 1 2 2 3 3 3 1 1 1 2 2 3 3 3 5 1 1 2 2 3 3 3 9 9 1 5 1 7 7 1 1 1 2 2 3 3 5 1 7 1 1 1 2 2 3 3 5 1 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 9 1 5 1 7 7 1 1 1 2 2 3 3 5 1 7 7 1 1 1 2 2 3 3 5 1 7 7 1 1 1 2 3 3 5 1 7 7 1 1 1 2 3 3 5 1 7 7 1 1 1 2 3 3 5 1 7 7 1 1 1 2 3 3 5 1 7 7 1 1 1 2 3 3 5 1 7 7 1 1 1 1 2 3 3 5 1 7 7 1 1 1 1 2 3 3 5 1 7 7 1 1 1 1 2 3 3 5 1 7 7 1 1 1 1 2 3 3 5 1 7 7 1 1 1 1 2 3 3 5 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TYPHOID FEVER—Concluded.

	Number.		Rest	ilte.	Positive. Negative.		No. slip.					
CITY OR TOWN.	Мв.е.	Female.	Total.	÷	0.	Male.	Female.	Male.	Female.	+	₹0.	Total.
South Paris South Paris South Portland Southwest Harbor South Windham Stonington Stratton Stratton Stratton Strong Sullivan Sunry Swan's Island Turner Union Unity Van Buren Vinalhaven Waldoboro Warren Waldoboro Warren Washburn Waterford Waterville Wasyne West Paris West Paris West Paris West Paris West Sumner Wilton Windham Winter Harbor Windham Winter Harbor Wiscasset Woodland Woolwich Yarmouthville York Harbor York Village	1 1 2 2 3 3 0 1 1 1 2 2 1 1 4 4 4 1 1 0 0 7 7 7 0 2 2 5 2 2 0 0 3 3 1 9 4 4 5 5 5 1	0 4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1	10044 334 111223 11133 111223 111226 662211126 661124 44212 984	0 33 0 0 1 1 0 0 0 0 1 1 1 1 1 1 0 0 0 0	17744 33311001113300003331166622111113322001122555500442283122	0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4 2 0	00 44 33 11 11 11 10 00 00 00 11 10 00 01 11 12 66 66 11 11 11 12 13 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	000000000000000000000000000000000000000	000000000000000000000000000000000000000	10 44 3 3 4 1 1 3 3 2 2 3 3 4 1 1 3 3 1 1 6 6 6 7 7 1 1 1 2 6 6 6 8 8 2 2 1 1 1 1 1 2 6 6 6 1 1 4 4 4 1 1 5 1 1 0 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total for two years	551	433	934	-226	758	121	105	430	328	22	56	1 .062

FINANCIAL STATEMENTS.

The following statements show the amount of money which was spent from the appropriations for running expenses of the State Board of Health for each of the years included in the periods 1914-1915, so arranged as to indicate the sums spent for various purposes:

1914.			
Advertising	\$17 63		
Exhibits and other Educative Work	1,030 63		
Stationery	201 61		
Books and Sanitary Journals	291 99		
Postage	461 31		
Express, Telegraph and Telephone	172 70		
Secretary's Salary	2,500 00		
Expenses of Secretary	281 18		
Expenses of Members	37 94		
Clerical Help	1,281 73		
Engraving, Drawing and Photography	50 44		
Help other than Clerical	252 28		
Vaccine, Antitoxin, Disinfectants, etc.	5 80		
Office Furnishings	204 84		
Miscellaneous	47 76		
-		\$6,837	84
1915.			
Advertising	\$13 68		
Exhibits and other Educative Work	824 31		
Stationery	37 00		
Books and Sanitary Journals	119 82		
Postage	213 14		
Express, Telegraph and Telephone	163 33		
Secretary's Salary	2,500 00		
Expenses of Secretary	183 81		
Expenses of Members	83 05		

Expenses of Clerks and other Em-		
ployees	6 65	
Clerical Help	1,236 54	
Engraving, Drawing and Photography	3 6 98	
Help other than Clerical	36 17	
Office Furnishings	37 65	
Miscellaneous	22 00	
-		\$5,514 13

EPIDEMIC FUND.

For each of the two years 1914-1915, there has been an epidemic or emergency fund at the disposal of the State Board of Health to be used with the consent of the Governor and Council in case of the invasion or threatened invasion of smallpox or other dangerous epidemic diseases into the State. The following shows the amount of this fund which has been used in each of these years:

1914	\$211 03
1915	0 00

STATE LABORATORY OF HYGIENE.

1914.	
Stationery	\$42 25
Books and Sanitary Journals	6 oo
Postage	2 44 54
Express, Telegraph and Telephone	226 64
Salaries	3,425 oo
Traveling and other Expenses of Direc-	
tor	86 40
Chemical and Bacteriological Supplies	<i>27</i> 6 50
Instruments and Apparatus	348 67
Insurance	36 94
Heating and Lighting	264 13
Rent	336 oo
Water	40 00
Ice	28 60
Furnishings and Repairs	108 25

\$5,469 92

1915.		
Stationery	\$26 10	
Books and Sanitary Journals	3 ⁸ 45	
Postage	77 96	
Express, Telegraph and Telephone	25 6 46	
Salaries	3,826 67	
Chemical and Bacteriological Supplies	147 75	
Instruments and Apparatus	240 41	
Insurance	28 30	
Heating and Lighting	329 08	
Rent	588 oo	
Water	40 00	
Ice	1980	
Furnishings and Repairs	434 2 6	
		\$6,053 24

PRINTING AND BINDING.

For the miscellaneous printing and binding for the State Board of Health, and the State Laboratory of Hygiene, and for the reports of the State Board of Health, and that on the births, marriages, divorces and deaths in the State of Maine, the following expenditures were made:

1914	 \$2,129	54
1915	 1,852	65

REPORT OF THE STATE BOARD OF EMBALMING EXAMINERS.

Complying with the requirements of Chapter 181, Section 7, the following report for the years 1914-1915 is made to the State Board of Health:

A. G. Young, secretary of the State Board of Health, is ex-officio a member and secretary and treasurer of the board. The other members for the years 1914 and 1915 were: J. Clark Flagg, Richmond, *Chairman*; Richard H. Stubbs, M. D., Augusta, and H. W. Rich, Portland.

